

AH diagnostics

AN EXTRAORDINARY ADVENTURE

ANALYSIS AND MEASUREMENTS



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AN EXTRAORDINARY ADVENTURE



MICROBIOLOGY : ANALYSES AND MEASUREMENTS

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ClearLine® Petri dishes

- Made of crystal polystyrene, superior clarity
- Manufactured under ISO Class 7 conditions
- Available aseptic or sterile (E-Beam irradiated, 10 kgy)



Dimensions* (mm)	Vents	Units/bag	Units/box	Aseptic		E-Beam Irradiated	
				Cat.No	Price/box	Cat.No	Price/box
55 x 14 (Ø x H)	Without	15	1200	076059	N/A -	076059S	N/A -
55 x 14 (Ø x H)	3	15	1200	076058	N/A -	076058S	N/A -
90 x 13 (Ø x H)	Without	20	500	020006B	N/A -	020006BS	N/A -
90 x 14.2 (Ø x H)	3	33	825	257045	N/A -	-	-
90 x 13 (Ø x H)	3	20	500	076084B	N/A -	076084BS	N/A -
90 x 13 (Ø x H)	3	20	500	076064**	N/A -	-	-
120 x 120 x 15 (W x L x H)	4	10	240	076063	N/A -	076063S	N/A -
140 x 13 (Ø x H)	4	15	165	076060B	N/A -	076060SD	N/A -

* General dimensions
** Double packaging

Antibiotic discs

- Cellulose discs for anti-biograms
- Diameter: 6, 9 or 12 mm

Cat. No.	Description	Units/box	Price/box
074074	Antibiotic disc 6 mm	1000	N/A -
074113	Antibiotic disc 9 mm	1000	N/A -
074114	Antibiotic disc 13 mm	1000	N/A -



Greiner Bio-One Petri dishes

Petri dishes

Polystyrene Petri dishes, with or without vents, excellent clarity, high quality with flat and stable bottom. A "heavy" version has more material which further increases stability.

3 versions: aseptic (not sterilised by irradiation), sterile E-Beam irradiated (electron bombardment) and sterile gamma irradiated.

ø x h (mm)	Vents	Units/bag	Units/box	Aseptic		E-Beam Irradiated		Gamma Irradiated	
				Cat.No	Price	Cat.No	Price	Cat.No	Price
35 x 15	Yes	10	740	627102	N/A -	-	-	-	-
55 x 12***	No	15	1620	020003	N/A -	-	-	-	-
60 x 15	Yes	20	600	628102	N/A -	628161	N/A -	628162B	N/A -
93 x 21*	Yes	15	360	664102	N/A -	-	-	664161	N/A -
94 x 16	Yes	20	480	633180	N/A -	-	-	-	-
94 x 16*	Yes	20	480	-	-	-	-	-	-
94 x 16	No	20	480	632180	N/A -	-	-	-	-
94 x 16*	No	20	480	-	-	-	-	632191	N/A -
145 x 20	Yes	15	120	639102	N/A -	639161	N/A -	639101	N/A -
120 x 120 x 17 (square)	Yes	10	240	688102	N/A -	-	-	688162	N/A -

* Heavy version, high-stability
** Economy version
*** double packaging and easy opening



Contact Petri dishes

Contact Petri dishes are specifically designed for surface sampling to locate or identify micro-organisms. Graduated bottom divided into squares for an easier colony count. Contact dishes are available in either aseptic (non-radiation sterilised) or sterile E-BEAM irradiated versions.

Cat. No.	Dimensions (mm)	Vents	Sterile	Unit unit.	Units/box	Price/box
629161	65 x 15	No	E-Beam	20	600	N/A -
629180	65 x 15	Yes	E-Beam	20	600	N/A -
629102	66 x 15	No	Aseptic*	20	600	N/A -

* Not sterilised by irradiation



Special Petri dishes

Cat.No	ø x H (mm) / feature	Vented	Aseptic*	Pack unit	Units/box	Price/box
635102	94 x 16 2 compartments	Yes	Yes	20	480	N/A -
657102	6 wells 15 ml	Yes	Yes	2	100	N/A -

* Not sterilised by irradiation

TIP



See pages 590 and following for bacteriology media

Falcon® Petri dishes

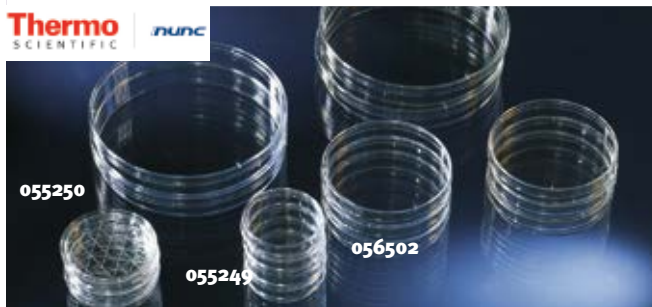


- For bacteriology, sterilised with gamma rays
- Perfectly flat surfaces, excellent transparency

Cat. No.	ø x h (mm)	Type	Units/bag	Units/box	Price/box
351008	35 x 10	Easy grip	20	500	N/A -
351006*	50 x 9	Waterproof cover	20	500	N/A -
351029	100 x 15	Standard	20	500	N/A -
351058	150 x 15	Standard	10	100	N/A -

* See ICSI Petri dish page 63

Nunc Petri dishes

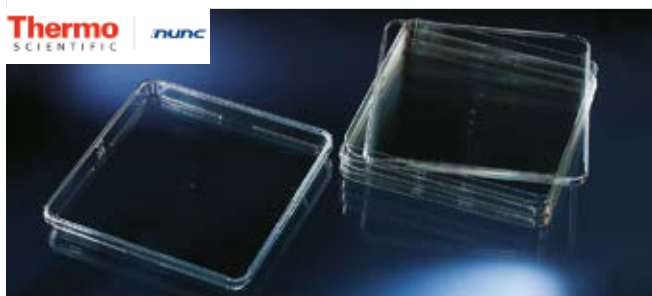


High flatness, excellent optical quality: Nunc quality.

- Sterile
- With or without vents
- Contact dish with counting grid, without vents

Cat. No.	Description	ø x H with lid. (mm)	Pack unit	Units/box	Price/box
055249	Dish without vents	58 x 15	20	400	N/A -
055250	Contact dish	67 x 15	11	396	N/A -
056502	Dish with vents	100 x 15	20	320	N/A -

Square dishes for Nunc screening



Made of polystyrene, specially designed for screening work, it is particularly suitable for agar diffusion analysis and for all bacteriology work requiring a large surface area.

- Sterilised by gamma rays
- Total flatness
- Total area: 500 cm², working volume: 225 ml
- Ext. dim.: 245 x 245 x 25 mm

Cat. No.	Description	Pack unit.	Units/box	Price/box
055253	Screening plate 245 x 245	4	16	N/A -

Stérilin Petri dishes



Standard Petri dishes

Cat. No.	Dimensions (mm)	Sterile	Vents	Pack unit.	Units/box	Price/box
020005	94 x 16	Aseptic	Yes	20	500	N/A -
020006	94 x 16	Sterile	No	20	500	N/A -
020008	145 x 20	Sterile	Yes	5	80	N/A -

Compartmented aseptic Petri dishes

Cat. No.	Dimensions (mm)	Compartment(s)	Vents	Pack unit.	Units/box	Price/box
020009	100 x 100	1	Yes	5	120	N/A -
020010	100 x 100	25	Yes	5	120	N/A -
020012	ø 90 x H 16	2	Yes	20	500	N/A -

Corning® Gosselin™ Petri dishes



Cat. No.	ø x h (mm)	Vents	Sterile	Units/bag	Units/box	Price/box
020003***	55 x 12	Without	Aseptic	15	1620	N/A -
020163***	55 x 12	Without	Ionised	15	1620	N/A -
080937	55 x 12	6	Aseptic	15	1620	N/A -
688308	55 x 12	6	Ionised	15	1620	N/A -
080097**	65 x 14.5	3	Ionised	20	720	N/A -
688301	90 x 14.2	Without	Aseptic	33	825	N/A -
688306	90 x 14.2	1	Aseptic	28	700	N/A -
688302	90 x 14.2	1	Aseptic	33	825	N/A -
688307	90 x 16.2	3	Aseptic	28	700	N/A -
688298**	90 x 14.2	3	Aseptic	33	825	N/A -
688303	90 x 14.2	3	Aseptic	33	825	N/A -
639104	140 x 20.6	Without	Aseptic	11	176	N/A -
639164	140 x 20.6	Without	Ionised	11	176	N/A -
030866	140 x 20.6	3	Aseptic	11	176	N/A -
030555*	120 x 120	4	Aseptic	14	252	N/A -
030555S*	120 x 120	4	Ionised	14	252	N/A -

* square ** double pack*** double pack, easy to open

PETRI DISHES

Round Petri dishes

- In polystyrene
- Perfect flatness
- Constant thickness
- Stackable
- High transparency
- 2 versions: non sterile (ISO 6) or sterile



Diameter (mm)	55		60		90										150			
Height (mm)	14	14.2	14.2		16.2		14.2		16.2		14.2		16.2		14.2	16.2	17.5	
Vents	3	3	3	3	3	3	Without	Without	Without	Without	1	1	1	1	3	3	3	
Number of compartments	1															2	2	1
Number of compartments Sterile	Yes	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	Yes	
Packaging unit	10	10	20	20	20	20	20	20	20	20	20	20	20	20	20	20	5	
Units/box	800	1080	480	480	480	480	480	480	480	480	480	480	480	480	480	480	160	
Cat. No.	390160*	390156	390155	390162	390153	390154	390163	390166	390164	390165	390167	390170	390168	390169	390158	390159	390157	
Price/box	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	

* With counting grid

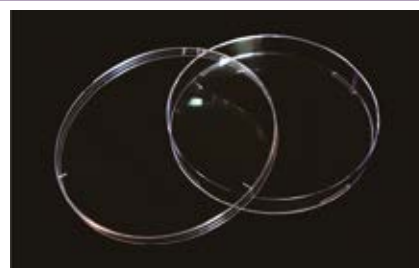
Square Petri dish

L x W (mm)	120 x 120
Height (mm)	17.5
Vents	3
Number of compartments	1
Sterile	Yes
Packaging unit	10
Units/box	240
Cat. No.	390161
Price/box	N/A -



Polystyrene Petri dishes

Diameter (mm)	55		90		90		120		140	
Height (mm)	14.2		14.2		16.2		15		15	
Vents	Without	3	Without	3	Without	3	Without	3	Without	3
Packaging unit	15	15	25	25	25	25	16	16	10	16
Units/box	1005	1005	600	600	600	600	240	240	110	240
Aseptic Cat. No.	483004	483005	483008	483009	483012	483013	483026	483027	483030	483031
Price/box	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -
Sterile Cat. No.	483006	483007	483010	483011	483014	483015	483028	483029	483032	483033
Price/box	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -



Rodac Petri dishes

- In polystyrene
- With counting grid

Diameter (mm)	65	
Height (mm)	14.5	
Vents	Without	4
Number of compartments	1	
Packaging unit	18	18
Units/box	918	918
Aseptic Cat. No.	483000	483001
Price/box	N/A -	N/A -
Sterile Cat. No.	483002	483003
Price/box	N/A -	N/A -



Specific Petri dishes

Diameter (mm)	90	90	90	90	90
Height (mm)	14.2	14.2	14.2	14.2	14.2
Vents	3	3	4	4	4
Number of compartments	1	2	1	2	3
Specifications	Laser marking		Stability ring		
Packaging unit	25	25	25	25	25
Units/box	600	600	600	600	600
Aseptic Cat. No.	483016	483018	483020	483022	483024
Price/box	N/A -	N/A -	N/A -	N/A -	N/A -
Sterile Cat. No.	483017	483019	483021	483023	483025
Price/box	N/A -	N/A -	N/A -	N/A -	N/A -



Anaerobic jars with Petri dish racks

For the cultivation of anaerobic organisms or for microaerophilic organisms.

- With valves for evacuation and filling with the desired gas
- Robust stainless steel containers
- UV-stable
- Easy to clean
- PVC lids
- Manometers mounted on the lid, display of positive pressure from - 1 to + 0.2 bar



Anaerobic jars

Cat. No.	Type	For	Vol. (l)	Dim. Ø x H (mm)	Material body/lid	Connections	Usable racks	No. of gas pack	Price
110711	Crystal	15 Petri dishes, Ø 60-100 mm	3	120 x 270	Transparent PC	2 valves, 1 manometer	110723, 110728, 110724	1	N/A -
110719	Large	15 Petri dishes, Ø 60-150 mm	6	175 x 260	Stainless steel/black plastic	2 valves, 1 manometer	110723, 110724, 110725, 110727, 110728, 110726	2	N/A -
110720	Small	10 Petri dishes, Ø 60-100 mm	2	120 x 170	Stainless steel/black plastic	2 valves, 1 manometer	110723, 110724, 110728	1	N/A -
110721	Standard	15 Petri dishes, Ø 60-100 mm	3	120 x 270	Stainless steel/black plastic	2 valves, 1 manometer	110723, 110724, 110728	1	N/A -
110722	Eco	15 Petri dishes, Ø 60-100 mm	3	120 x 270	Stainless steel / PC transparent	Ventilation valves	110723, 110724, 110728	1	N/A -

Racks

Cat. No.	Description	Price
110723	Rack for 10 Petri dishes, Ø 60 - 100 mm	N/A -
110724	Rack for 15 Petri dishes, Ø 60 - 100 mm	N/A -
110725	Rack for 10 Petri dishes, Ø 60 - 150 mm	N/A -
110726	Rack for 45 Petri dishes, Ø 60 mm	N/A -
110727	Rack for multi-well plates	N/A -
110728	Rack for 9 tubes, Ø 18 mm	N/A -

Accessories

Cat.No	Description	Units/box	Price/box
110712	GasPak Bag Anaerobic Kit, capacity 3.5 l	10	N/A -
110713	GasPak Bag CO ₂ Kit, capacity 2.5 l	10	N/A -
110714	GasPak Bag microaerophil Kit , capacity 3.5 l	10	N/A -
110715	Anaerobe Indicator Test	100	N/A -

Anaerobic jars

GASPAK 100

- Supplied complete
- With racks for 12 dishes



Cat. No.	Description	Price
260626	Anaerobic jar	N/A -

GASPAK EZ

- For 15 or 30 dishes



Cat.No	Anaerobic jar	Price
260671	for 15 dishes	N/A -
260672	for 30 dishes	N/A -

➤ Racks

Cat. No.	Description	Price
260673	Rack fo 15 - 18 Petri dishes for GasPak™ EZ standard	N/A -
260674	Rack for 30 - 33 Petri dishes for GasPak™ EZ large	N/A -

Production and anaerobic atmosphere indicator



A pad is saturated with methylene blue. This colour changes from blue to colourless in the absence of oxygen.

- Allows the production of an anaerobic atmosphere
- Anaerobic atmosphere indicator
- For round jar or EZ jar
- Per pack of 20

Cat. No.	Description	Units/box	Price/box
0260001	Anaerobic atmosphere production systems	20	N/A -
176047	Anaerobic atmosphere indicator strip	100	N/A -

Bag Atmosphere production



- Contains 2 Petri dishes diameter 90 mm
- Per pack of 20

Cat.No.	Description	Units/box	Price/box
260683	GasPak EZ Anaerobic atmosphere production system	20	N/A -
260684	CO ₂ GasPak EZ atmosphere production system	20	N/A -

Petri dish closure tape

For sealing Petri dishes and microplates...

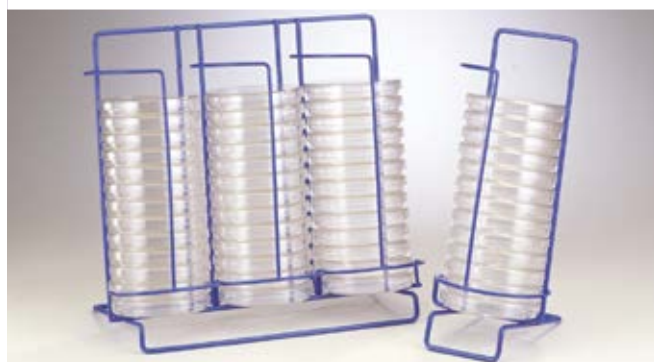
Stretch tape for sealing and closing Petri dishes and microplates.

- Limits the risk of evaporation
- Reduces gas exchange and the risk of contamination
- Width: 12.7 mm, length: 35 m
- Flexible, stretchable
- Good solvent resistance, waterproof
- Operating temperature range: from -30 °C to +70 °C

Colour	Transparent	White	Red	Yellow	Blue	Price/ the roll
Cat.No	053001	053002	053003	053004	053005	N/A -



Dispensing Racks for Petri dishes



Epoxy coated steel racks for storing and dispensing Petri dishes.

- 2 models: the rack alone or the holder for 3 racks
- Top loading
- Holds 11 or 3 x 14 Ø 90 mm or 100 mm polystyrene Petri dishes
- The dish is recovered from the bottom

Cat. No.	Model	L x W x H (mm)	Dish capacity	Price
085495	1 rack	145 x 110 x 280	11	N/A -
085496	1 stand + 3 racks	145 x 320 x 280	3 x 14	N/A -

Racks for Petri dishes



- Made of epoxy-coated steel
- Not suitable for glass Petri dishes
- Top loading
- With handle for transporting 100 mm or 90 mm Ø Petri dishes

Cat. No.	Number of columns	L x W x H (mm)	Dish capacity	Price
086630	1	108 x 108 x 356	20	N/A -
086631	3	343 x 105 x 305	42	N/A -

Petri dish basket holder



Stainless steel rack for loading Petri dishes into the incubator.

- Capacity: 36 Petri dishes in 2 x 3 stacks of 6 dishes
- Complies with the Vo8-002 standard for loading ovens

Cat. No.	For 36 Petri dishes of diameter	L x W x H (mm)	Price
150303	90 mm	380 x 270 x 140	N/A -
150304	65 mm	310 x 210 x 140	N/A -
150305	55 mm	280 x 210 x 130	N/A -

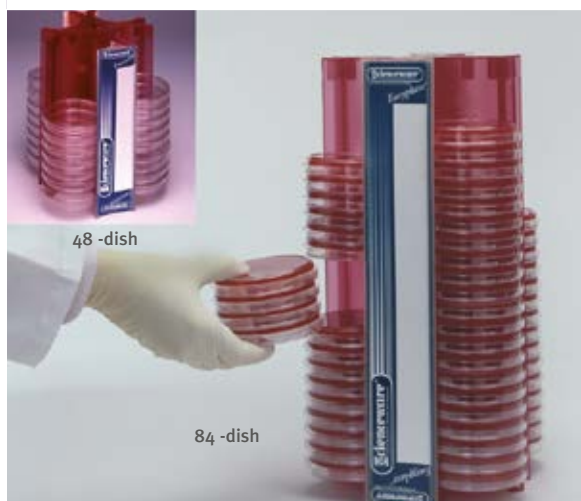
Dispenser 2 x 15 Petri dishes



- In acrylic
- for 2 x 15 Petri dishes Ø 100 mm
- To be placed on the bench or fixed to the wall (supplied with screws)
- Dimensions: 222 x 107 x 236 mm

Cat. No.	Description	Price
037798	Petri dish dispenser	N/A -

EasyPlate™ Racks for Petri Dishes



- Increase the working area
- Eliminate the swinging effect of Petri dishes
- Good hold of the dishes thanks to an elastic system
- Supplied with marking labels
- Polycarbonate, Autoclavable

Two models available:

- for 48 (4 x 12) plastic Petri dishes 94 mm;
- for 84 (4 x 24) plastic Petri dishes 94 mm.

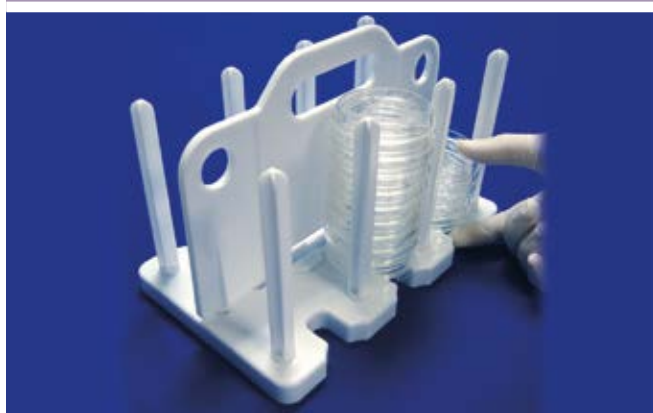
EasyPlate™ racks for 48 Petri dishes

Natural	Red	Yellow	Blue	Price	Assorted	Price 4 units
086645	086647	086648	086649	N/A -	086651	N/A -

EasyPlate™ racks for 84 Petri dishes

Natural	Blue	Price
086646	086650	N/A -

Rodac Racks for Petri dishes



- For 60 Petri dishes Ø 65 mm or 42 Petri dishes Ø 100 mm
- White polypropylene, with carrying handle
- Autoclavable at 121 °C for 20 minutes
- Supplied flat, to be assembled
- L x W x H Cat.No. 065401: 26.6 x 16.5 x 17.8 cm
- L x W x H Cat.No. 088736: 33 x 21 x 17.8 cm

Cat. No.	Description	Price
065401	Rack for 60 Petri dishes Ø 65 mm	N/A -
088736	Rack for 42 Petri dishes Ø 100 mm	N/A -

Incubation trays for Petri dishes



- Facilitate handling and incubation of Petri dishes
- White epoxy
- Dimensions: 349 x 134 x 22 mm
- Possible Petri dish diameters: 90, 60, 50 and 35 mm

Cat. No.	Description	Price
085497	White epoxy incubation tray	N/A -

Stackable incubation tray for Petri dishes



Polypropylene tray for 5 x 100 mm diameter Petri dishes or 15 x 60 mm diameter Petri dishes.

- Stackable trays to optimise incubator space
- L x W x H: 251 x 237 x 35 mm

Cat. No.	Description	Price 3 units
086601	Stackable incubation tray for Petri dishes	N/A -

Corning® Gosselin™ Inoculating loops



Volume	1 µl	10 µl
Units/bag	20	20
Units/box	9000	9000
Inoculating loop + ball	076835	076837
Inoculating loop + needle	076839	-
Price/box	N/A -	N/A -

Economic models

Cat. No.	Description	Pack unit.	Units/box	Price/box
731165GO	Inoculating loop, 1 µl	20	3000	N/A -
731175GO	Inoculating loop, 10 µl	20	3000	N/A -



- Two models: 1 µl or 10 µl + Spherical extremity / or 1 µl or 10 µl + needle extremity (vaccinostyl)
- In soft polystyrene, softer with agar
- Ergonomic
- In re-sealable zip lock bag
- Sterile



Biosigma seeders

- Blue or white soft polypropylene, sterile single use
- One side needle, other side with 1 or 10 µl loop
- In peel packs of 1, 5, 10 or 20 units

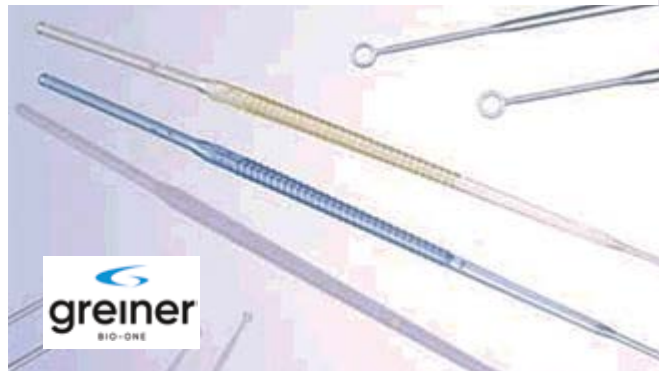
Packaging unit	1	5	10	10	20	20
Units/box	2100	4000	2000	12000	2000	10000
Inoculating loop 1 µl, white	390533	390534	390532A	390532	390531A	390531
Inoculating loop 10 µl, blue	390529	390530	390528A	390528	390527A	390527
Price/box	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -



Inoculating loops and seeders

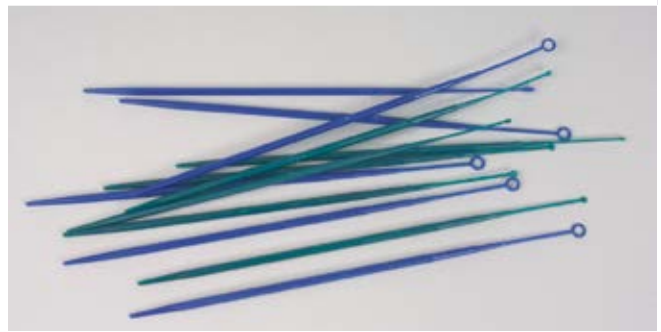
- Flexible loops for easier collection and inoculation
- Sterile polystyrene
- Allows the inoculation of micro-organisms without altering the agar
- Ideal loops for colony collection
- Length: 200 mm

Units/bag	1	10	50
Units/box	600	3000	2000
Inoculating loop 1 µl	731161	731165	731101
Inoculator 10 µl	731171	731175	731170
Seeders	731181	731185	731180
Price/box	N/A -	N/A -	N/A -



Inoculating loops and vaccinostyls in sealed or resealable pouch

- Sterile
- 1 µl or 10 µl version
- Colour coded for easy identification
- Extremely smooth loop surface
- Two models, soft or hard
- Packaging in sealed or resealable pouch
- The resealable pouch is placed on a special holder which allows easy removal of the inoculating loop



Type	Inoculating loop 1 µl						Inoculating loop 10 µl							
	Flexible			Rigid			Flexible			Rigid				
Colour	Light green			Dark green			Light blue			Dark blue				
Pouch type	Peel		Resealable	Peel		Resealable	Peel		Resealable	Peel		Resealable		
Units/bag	10	10	20	40	10	20	40	10	10	20	40	10	20	40
Units/box	100	2000	4000	4000	2000	4000	4000	100	2000	4000	4000	2000	2000	4000
Cat. No.	042861	042828	042829	042837	042825	042826	042836	042862	042830	042832	042838	042827	042831	042835
Price/box	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

Accessories

Cat. No.	Description	Units/bag	Units/box	Price/box
042833	Inoculating needle in peel pouch	20	2000	N/A -
042834	Inoculating needle in resealable pouch	40	4000	N/A -
042839	Holder for resealable pouch	-	1	N/A -

Blue and orange inoculating loops

- In polystyrene
- Soft surface of the loop prevents damage to the agar
- Sterile, in zip lock bag of 25 units

Cat. No.	Volume (µl)	Colour	Units/bag	Units/box	Price/box
010174	1	Blue	25	1000	N/A -
010175	10	Orange	25	1000	N/A -



Nunc Inoculating loops and vaccinostyles



► High precision, rigorous manufacturing quality

► Sterilised by gamma rays

Units/bag	12	50
Units/box	2400	4000
Inoculating loop 1 µl	055254	055255
Inoculating loop 10 µl	055256	055257
Vaccinostyle	-	055258
Price/box	N/A -	N/A -

Stainless steel Inoculating loops



Stainless steel Inoculating loop of 1.5 mm, 2.5 mm and 4 mm diameter.

Cat. No.	Description	Price
076265	Inoculating loop 1.5 mm diameter	N/A -
076266	Inoculating loop 2.5 mm diameter	N/A -
076267	Inoculating loop 4.5 mm diameter	N/A -

Nichrome Inoculating loops



► Nichrome inoculating loop, calibrated or not, without handle or with insulated aluminium handle

► For calibration, use the 1 µl or 10 µl loop gauges

Non-calibrated inoculation loops without handles

Cat. No.	Description	Price 25 units
042842	Inoculating loop without handle ø 2 mm - 26 Ga	N/A -
042843	Inoculating loop without handle ø 3 mm - 26 Ga	N/A -
042844	Inoculating loop without handle ø 4 mm - 26 Ga	N/A -
042845	Inoculating loop without handle ø 5 mm - 26 Ga	N/A -

Calibrated inoculation loop without handles

Cat. No.	Description	Price
042846	Calibrated Inoculating loop without handle 1 µl	N/A -
042847	Calibrated Inoculating loop without handle 10 µl	N/A -

Non-calibrated inoculating loops with insulated aluminium handle

Cat. No.	Diameter (mm)	Type	Length (mm)	Price 5 units
042854	2	26 Ga	200	N/A -
042855	3	26 Ga	200	N/A -
042856	4	26 Ga	200	N/A -
042857	5	26 Ga	200	N/A -

Seeding Loops

Cat. No.	Description	Price
068651	Irradiated platinum loop ø 3 mm (supplied without the handle, compatible handles: 042850 and 042849, see below)	N/A -
068655	Nickel-chromium loop ø 3 mm	N/A -

Loop holders

Cat. No.	Description	Price
042848	Aluminium loop holder - length 150 mm	N/A -
042849	Aluminium loop holder - length 175 mm	N/A -
042850	Brass loop holder - length 150 mm	N/A -
042851	Brass loop holder - length 175 mm	N/A -

Calibration gauges

Cat. No.	Description	Price
042852	Calibration gauge for 1 µl loop	N/A -
042853	Calibration gauge for 10 µl loop	N/A -

Reusable inoculation loops and needles



► Nichrome handles, twisted wire

► Supplied with or without handle

► Calibrated handles supplied with calibration certificate (ASM/APHA Evans Blue Dye test protocols)

Cat.No	Type	Handle	Calibrated	Dimensions	Units/ box	Price/ box
141174B	Handle	No	No	Int. ø 2.45 mm	25	N/A -
141175B	Handle	No	No	Int. ø 3.41 mm	25	N/A -
141176B	Handle	No	No	Int. ø 5.45 mm	25	N/A -
141172	Handle	No	Yes	Int. ø 4 mm (10 µl)	5	N/A -
141173	Handle	No	Yes	Int. ø 1.45 mm (1 µl)	5	N/A -
141179B	Handle	Yes (blue)	No	Int. ø 2.5 mm	5	N/A -
141180B	Handle	Yes (green)	No	Int. ø 3.5 mm (3.1 µl)	5	N/A -
141181B	Handle	Yes (red)	No	Int. ø 5.5 mm (5.45 µl)	5	N/A -
141182	Handle	Yes	Yes	Int. ø 1.45 mm (1 µl)	5	N/A -
141183	Handle	Yes	Yes	Int. ø 4 mm (10 µl)	5	N/A -
141184	Needle	-	-	-	1	N/A -
141177	Handle	-	-	L = 15 cm	1	N/A -
141178	Handle	-	-	L = 20 cm	1	N/A -

Petrirturn-E and Petrirturn-M turntables for Petri dishes

➤ Petrirturn-M Features

- Powerful device with a long life thanks to the large mass of the turntable
- Can be used on both sides for optimum ease of use with Petri dishes Ø 100 and 150 mm
- Size: 160 x 70 mm
- Weight: approx. 2.3 kg

➤ Petrirturn-E Features

- Stainless steel device, it operates with an electric motor and a sensor for contactless operation of the turntable
- Used for uniform liquid agar surfaces in Petri dishes
- Used for Petri dishes up to 100 mm in diameter (150 mm as an option and other diameters available on request)
- Turns at a speed of 10 to 100 rpm, continuously adjustable for periods of 3 sec to 2 min or permanently
- Option: connection of a pedal
- Size: 160 x 170 mm
- Weight: approx. 1 kg
- Duration of use: 3 s – 2 min / non-stop



Cat. No.	Description	Price
150594	Electrical Petrirturn-E 230 V	N/A -
150595	Manual Petrirturn-M	N/A -
150596	Pedal for Petrirturn-E	N/A -
150597	Petri dish holder up to 150 mm	N/A -
150598	Stainless steel Inoculating loop 180 mm	N/A -
150599	Glass Inoculating loop 145 mm	N/A -



Replicator for Petri dishes

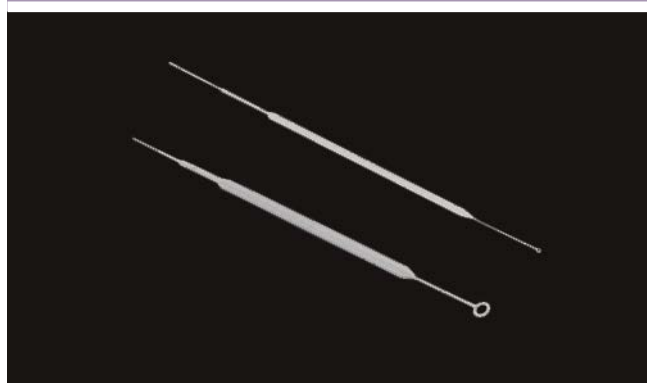
The system allows the replication of bacterial colonies using the "velvet replication" technique. For 90 mm dishes. The system includes:

- a 52 mm high PVC base;
- a 100% cotton velveteen square (152 x 152 mm);
- a locking aluminium ring secures the velveteen on the cylinder.



Cat.No	Description	Price
085884	Replicator (base + ring) with 12 sterile velvet squares	N/A -
085885	Sterile velvet squares (3 bags of 12)	N/A -

Polystyrene Inoculating loops



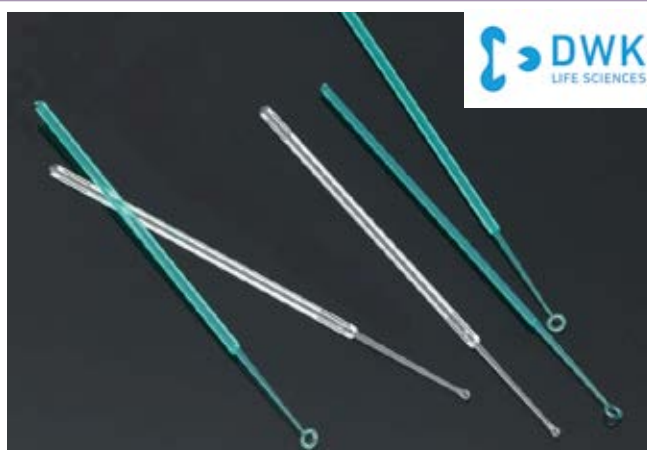
Length (mm)	194	
Packaging unit	20	1
Units/box	7000	2000
Inoculating loop 1 µl	483047	483049
Price/box	N/A -	N/A -
Inoculating loop 10 µl	483048	483050
Price/box	N/A -	N/A -

Wheaton® Inoculating loops

- In polystyrene
- Smooth head
- Rigid handle
- Sterilised with ethylene oxide
- In peelable bag of 20

Cat. No.	Volume (µl)	Colour	Length (mm)	Pack* unit.	Units/box	Price/box
055777	10	Green	172	1000	6000	N/A -
055775	1	Transparent	170	1000	6000	N/A -
055774	10	Blue	199	1000	6000	N/A -
055776	1	Blue	199	1000	6000	N/A -

* In peelable bag of 20.



L-shaped sterile white or blue spreaders



Sterile, L-shaped spreader with curved end to avoid scratching the surface of the culture medium. Packed individually or in bags of 5. Diameter: 3 mm. Blue or white.

Cat. No.	Colour	Rake length	Units/bag	Units/box	Price/box
999060B	White	35 mm	1	400	N/A -
999059B	White	35 mm	5	400	N/A -
042820	Blue	33 mm	1	500	N/A -
042821	Blue	34 mm	5	1000	N/A -

T-shaped spreaders



Sterile T-shaped spreader. Packed individually, by 5 or by 10.

Cat. No.	Shape	Rake length	Units/bag	Units/box	Price/box
042822	T-shape	35 mm	1	500	N/A -
042823	T-shape	35 mm	5	1000	N/A -
042824	T-shape	34 mm	10	1000	N/A -

Sterile L-shape green or orange spreaders



- > Single-use spreaders
- > L-shape with curved end
- > In polystyrene or ABS
- > Smooth surface
- > L x W x ø: 146 x 38 x 4 mm
- > Packed individually or by 10

Cat. No.	Colour	Material	Units/bag	Units/box	Price/box
037616	Green	ABS	10	500	N/A -
010178	Orange	PS	10	500	N/A -
010177	Orange	PS	1	500	N/A -

PS: polystyrene ABS: acrylonitrile butadiene styrene

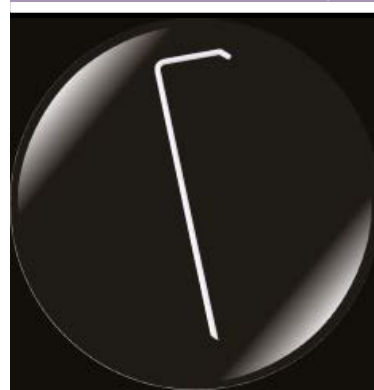
Wheaton® Spreaders



- > Smooth L-shape
- > Sterile

Cat. No.	Description	Pack unit.	Units/box	Price/box
055779	L-shaped spreaders	5	500	N/A -

Sterile L-shaped spreaders



- > In polystyrene

Length (mm)	148
Cat. No.	483045
Packaging unit	5
Units/box	2400
Price/box	N/A -
Cat. No.	483046
Packaging unit	1
Units/box	2000
Price/box	N/A -

Sterile rake shape spreaders



Dimensions: 172 x 37 x 14 mm. Easy to handle. Sterile

Cat. No.	Description	Packaging unit	Price 500 units
037877	Sterile spreaders	1	N/A -

Stainless steel Spreaders



For spreading bacteria on Petri dishes.

- > Stainless steel
- > Autoclavable
- > Flame sterilisable
- > Length: 302 mm
- > Two widths: 16 or 25 mm

Cat. No.	Description	Price
085968	Stainless steel spreader 16 mm wide	N/A -
085969	Stainless steel spreader 25 mm wide	N/A -

Drigalski spatulas



- > Glass
- > L x W x ø: 145 x 50 x 5 mm
- > For a uniform distribution of biological material

Cat. No.	Description	Price
140605	Drigalski Spatula 145 x 50 mm	N/A -

Dual stirring spatula



- Dual function spatulas:
- stirring spatula at one end (30 x 7 mm);
 - Inoculating rod at the other (38 x 1 mm).
- Total length: 150 mm. Thickness: 7 mm.

Cat. No.	Description	Units/ bag	Units/ box	Price/ box
999065	Sterile shaker - Inoculating loop	5	1000	N/A -

Stirring rod

- > In soda-lime or borosilicate glass
- > Diameter: 8 mm, length: 250 mm

Cat. No.	Description	Price
673329	Soda-lime glass stirring rod	N/A -
673330	Borosilicate glass stirring rod	N/A -



Sterile sampling clamp

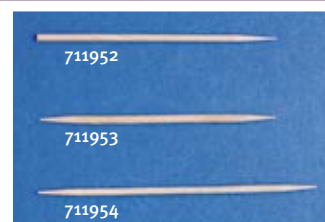


- > With an embossed inner surface for a better grip on objects
- > Sterile, single pack

Cat. No.	Description	Length (mm)	Units/ box	Price/ box
085931	Sampling clamps	108	25	N/A -

Picks

- > Wooden picks
- > 3 sizes
- > 100 % Certified for food contact



Cat. No.	Description	Units/ box	Price/ box
711952	1-Tip pick, 66 mm	1000	N/A -
711953	2-Tip pick, 68 mm	1000	N/A -
711954	2-Tip pick, 80 mm	1000	N/A -

SmartPicks wooden picks



- > 3 lengths: 32.5 mm, 63.5 mm and 152.4 mm
- > 32.5 mm version suitable for 1.5 ml tubes
- > 2 tip sizes: 1.6 mm (bevelled) and 0.4 mm (needle point)
- > Autoclavable

Cat. No.	Length (mm)	ø tip (mm)	Units/ box	Price/ box
320058	32.5	1.6	2000	N/A -
320059	32.5	0.4	2000	N/A -
320060	63.5	1.6	1500	N/A -
320061	63.5	0.4	1500	N/A -
320062	152.4	1.6	500	N/A -
320063	152.4	0.4	500	N/A -

Wooden toothpick



Cat. No.	Length (mm)	ø (mm)	Number of tips	Units/ box	Price/ box
046002	80	1.8	2	100	N/A -
046003	80	1.8	2	1000	N/A -
046098	68	1.8	2	1000	N/A -
534804	65	2	1	800	N/A -

Cotton buds



► **Wooden rod**

Cat. No.	Number of heads	Rod size Ø x W (mm)	Ø head (mm)	Units/box	Price/box
046027	2	2.2 x 80	6	100	N/A -

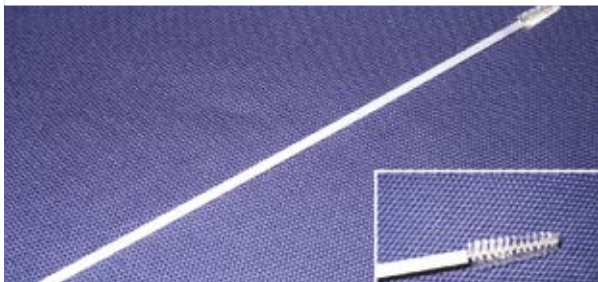
Tongue depressor



- **Wooden**
- **Smooth contact**
- **Rounded ends**
- **Non-sterile, single use**

Cat.No	Description	Dimensions (mm)	Units/box	Price/box
046009	Wooden tongue depressor	150 x 18	100	N/A -
534801	Wooden tongue depressor ECO	150 x 18 x 2.2	100	N/A -
534802	Wooden tongue depressor ECO single pack	180 x 21 x 2.35	100	N/A -

Histobrush swabs



For endocervical sampling. Intact sampling Sterile brush swab for cell sampling, chlamydia testing, Papanicolaou collection, STD sampling, etc.

- **Up to 70 times more effective than a traditional swab**
- **Sterile in individual packaging**
- **Length: 20 cm**

Cat. No.	Description	Price 100 units
252188	Histobrush sterile swabs	N/A -

Nasopharyngeal swabs

Dry swabs



Rod	Material	ABS
	Length (mm)	153
	Ø (mm)	2.5
	Breakable (mm)	100
Tip	Material	Nylon
	Ø (mm)	3
Medium volume (ml)		3

- **Rod material: ABS**
- **Total length: 150 mm**
- **Diameter: 2.5 mm**
- **Breaking height: 82.5 mm**
- **Flocked nylon tip**
- **Width: 3 mm**
- **Thickness: 3 mm**
- **Length: 16 mm**
- **Sterile**
- **CE and FDA**
- **Single pack**

Cat. No.	Description	Units/box	Price/box
011990	Swab in peelable bag	100	N/A -

Swabs with medium

Cat. No.	Description	Units/box	Price/box
010233	10 ml tube with 3 ml transport medium - preservation	500	N/A -
010234	10 ml tube with 3 ml preservation medium - virus inactivation	500	N/A -



Swab for DNA sampling



- **Treated with ethylene oxide**
- **Tested for use in PCR**
- **Wooden rod, cotton tip**
- **Delivered with DNA analysis certificate**

Cat.No	Description	Pack unit.	Units/box	Price/box
020467A	Certified PCR DNA collection swabs	100	100	N/A -

Swabs for fine sampling



- **Laminated paper rod**
- **Mini cotton tip diameter 1.5 mm**
- **Gamma irradiation with Sal 10⁻⁶**

Cat. No.	Description	Units/box	Price/box
039027B	Cotton swabs, paper rod, sterile tube	250	N/A -

Cotton tip swabs



Wooden or polypropylene rod. With one or two cotton tips.

Cat.No	Rod	Rod size L x ø (mm)	Tip size L x ø (mm)	Pack unit.	Units/box	Price/box
020305	Wood	400 x 4	50-60 x 15-20	100	100	N/A -
020306	Wood	500 x 4	50-60 x 15-20	100	100	N/A -
020307	Wood	200 x 3	25-30 x 5	100	100	N/A -
020308	Wood	250 x 3	25-30 x 5	100	100	N/A -
020309	Wood	300 x 3	25-30 x 5	100	100	N/A -
020310	Polypropylene*	80 x 2.5	12 x 4-5	100	2000	N/A -
020311	Wood*	80 x 2.5	12 x 4-5	100	2000	N/A -
020317	Wood	230 x 2.2	12 x 4-5	100	1000	N/A -
390696A	Wood	150 x 2	Width 5 mm	20	100	N/A -
390580	Wood	150 x 2	Width 5 mm	1	5000	N/A -
390696	Wood	150 x 2	Width 5 mm	1	10000	N/A -

* Swab with 2 tips

Gynobrush sampling brush



Non-sterile sampling brush. 4 models:

- Gynobrush: length 20 cm;
- Gynobrush Plus: length 20 cm, soft plastic end tip;
- Gynobrush Special: length 20 cm, triangular-shaped tip;
- Gynobrush Combi: length 24 cm, with two usable sides (sampling brush and Ayres sampling spatula), tip finished with soft plastic.

Cat. No.	Description	Price 100 units
020411	Gynobrush sampling brush	N/A -
020412	Gynobrush Plus sampling brush	N/A -
020413	Gynobrush Special sampling brush	N/A -

Polyurethane head swabs



With plastic or wooden rod.

Cat.No	Rod	Rod length (mm)	Tip	Pack unit.	Units/box	Price/box
020312	Wood	150	Fine	100	100	N/A -
020313B	Polypropylene	150	Large	25	25	N/A -
020314	Wood	150	Large	25	100	N/A -
020315A	Polypropylene*	150	Large flexible	25	25	N/A -

* Swab with 2 tips

Vials with swab



- Sterile polypropylene (the cap Cat.No. 930753 is made of polyethylene)
- Round bottom, skirted
- Protect the sample from contamination
- A cotton swab is attached to the cap (ideal for sampling)
- Silicone gasket for a perfect seal
- Tested 95 kPa

Cat. No.	Volume (mL)	Pack unit	Units/box	Price/box
930752	5	100	500	N/A -
930753	10	50	500	N/A -

Plastic tube swabs

- Swabs delivered in a plastic tube with marking label
- Packaged in bags of 100 or 500
- Available with wooden, plastic, aluminium or paper rods and synthetic or natural tip
- Sterile

Cat. No.	Rod material	Tip material	Colour code	Units/bag	Units/box	Price/box
020060	Wood	Hydrophile Cotton	Red	500	500	N/A -
020060COP	Wood	Hydrophile Cotton	Red	100	100	N/A -
020061	Wood	Carded cotton	Violet	500	500	N/A -
020063	Plastic	Hydrophile Cotton	Red	500	500	N/A -
042864	Plastic	Viscose	Blue	500	500	N/A -
042811	Plastic	Dacron	Red	100	1000	N/A -
042812	Aluminium	Synthetic	Orange	100	1000	N/A -
042814	Aluminium	Dacron	Yellow	100	1000	N/A -
042870	Aluminium	Viscose	Orange	500	500	N/A -
042896*	Plastic	Synthetic	White	50	500	N/A -
042817	Aluminium	Synthetic	Blue	500	1000	N/A -

* Double swab



Sterile swabs in transparent polystyrene tube

Sterile swabs with wooden shaft and cotton tip, in transparent polystyrene tube.

Cat. No.	Tube size (mm)	Pack unit	Units/box	Price/box
421180	16 x 150	1	700	N/A -
421161	16 x 150	1000	1000	N/A -
420180	16 x 110	1	700	N/A -
420161	16 x 110	1000	1300	N/A -

Sampling swabs



Rod material	Wood	Plastic	Wood	Plastic	Aluminium	Flexible twisted aluminium
Tip material	Cotton	Cotton	Cotton	Rayon	Rayon	Rayon
Sterile	Yes					
Transport tube	No	No	Yes (12 x 150 mm)			
Cat. No.	390102	390103	390104	390105	390106	390107
Packaging unit	500	100	100	100	100	100
Units/box	5000	2000	1000	1000	1000	1000
Price/box	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

Swabs with transport medium



Stick material	Plastic				Plastic		
Tip material	Rayon				Polyester		
Sterile	Yes						
Tube	Polypropylene, 12 x 150 mm						
Transport media	Stuart	Stuart and charcoal	Amies	Amies and charcoal	Cary blair	Virus	Chlamydia
Cat. No.	390108	390109	390110	390111	390112	390113	390114
Packaging unit	100	100	100	100	50	25	25
Units/box	600	600	600	600	500	250	250
Price/box	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

ANALYSIS AND MEASUREMENTS

Single-use spectrophotometer cuvettes ClearLine®



Single-use cuvettes, in two types of materials:

- polystyrene (PS): wavelength 340 to 900 nm;
- PMMA: wavelength 300 to 900 nm.

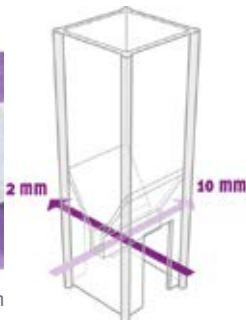
➤ Optical path: 10 mm

➤ Packaged in a polystyrene box

Cat. No.	Vol. (ml)	Number of windows	Type	Material	Spectral range (nm)	Price 100 units
030101	1.6	2	Semi micro	PS	340/900	N/A -
030108	1.6	2	Semi micro	PMMA	300/900	N/A -
030100	4	2	Macro	PS	340/900	N/A -
030111	4	2	Macro	PMMA	300/900	N/A -

UVETTE spectrophotometer cuvettes

eppendorf



Single-use cuvettes for UV - visible with double optical path: 10 mm or 2 mm. For use on the Eppendorf Biophotometer.

- Rack or individual packaging
- Measure: 220 to 1600 nm
- Volume: 50 to 2000 µl
- Beam height: 8.5 mm
- L x W x H: 12.5 x 12.5 x 36 mm



Cat. No.	Description	Units/box	Price/box
033189	Uvette® Eppendorf individual packaging	80	N/A -
033952	Uvette® Eppendorf on rack	2 packs of 100	N/A -

Adapters for other brands of photometers

The Uvettes® Eppendorf can be used on most photometers with an adapter.

Cat. No.	For photometers	Price
033337	Beam height 8.5 mm	N/A -
033338	Beam height 10 mm	N/A -
033339	Beam height 15 mm	N/A -
033340	Beam height 20 mm (Varian Cary 50 compatible)	N/A -
033344	GeneQuant I and II	N/A -

Ratiolab single-use spectrophotometer cuvettes

- Single-use cuvettes
- External dimensions: 12.5 x 12.5 x 45 mm
- Optical path: 10 mm
- Supplied in a resealable polystyrene box of 100 cuvettes



For UV reading (220 to 900 nm)

Special plastic resin.

Cat. No.	Vol. (ml)	Price 100 units
030105	1.6	N/A -
030106	4	N/A -

For reading in the visible

Cat. No.	Vol. (ml)	Number of windows	Type	Material	Spectral range (nm)	Price 100 units
030101R	1.6	2	Semi micro	PS	340/900	N/A -
030108R	1.6	2	Semi micro	PMMA	300/900	N/A -
030109	1.6	2	Semi micro	Resin*	340/900	N/A -
030100R	4	2	Macro	PS	340/900	N/A -
030111R	4	2	Macro	PMMA	300/900	N/A -
030112	4	2	Macro	Resin*	340/900	N/A -

* solvent resistant resin: check compatibility

Cap for cuvettes



Polypropylene caps for cuvettes.

Cat. No.	Description	Price 1000 units
391101	Cap for cuvettes	N/A -

Eppendorf® Vis Cuvettes

eppendorf



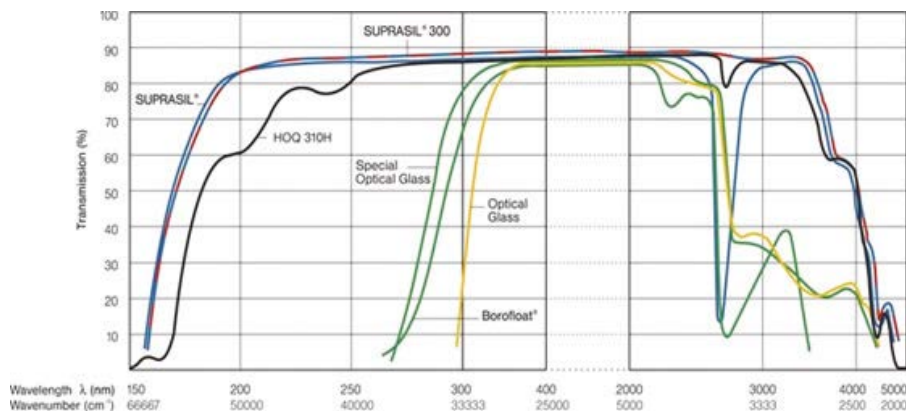
- Single-use cuvettes
- Measurements in the range 300 to 900 nm
- Light beam height: 8.5 - 15 mm
- Ideal for colorimetric protein assays, OD600, kinetic measures (Macro Cell) and fluorescence

Cat.No	Description	Volume min. (µl)	Volume max. (µl)	Dim. (mm)	Units/box	Price/box
933027	Macro cuvette	1000	4500	12.5 x 12.5 x 45	1000	N/A -
933028	Semi-micro cuvette	400	3000	12.5 x 12.5 x 45	1000	N/A -

Hellma Cuvettes for absorption spectroscopy



- > Cuvettes with 2 windows, with or without PTFE lid
- > Macro, Semi Macro, Micro and Ultra micro cuvettes depending on volume
- > Window materials to be selected according to wavelength: optical glass (OG), special optical glass (OS), quartz Suprasil® (QS), quartz Suprasil® 300 (QX)



Window materials and colour codes	Wavelength
Optical glass ■ OG ■	360 nm – 2500 nm
Special optical glass ■ OS ■	320 nm – 2500 nm
Quartz SUPRASIL® ■ QS ■	200 nm – 2500 nm
Quartz SUPRASIL® 300 ■ QX ■	200 nm – 3500 nm

Hellma model	Optical path (mm)	Vol. (ml)	H x W x L ext. (mm)	W int. (mm)	Base/ bottom thickness (mm)	Glass		Quartz SUPRASIL® QS		Quartz SUPRASIL® 300 QX	
						Cat.No	Price The cuvette	Cat.No	Price The cuvette	Cat.No	Price The cuvette

Standard cuvettes without lid

6030	10	3.5	45 x 12.5 x 12.5	9.5	1.5	139065A	N/A -	139066A	N/A -	-	-
6030	20	7	45 x 12.5 x 22.5	9.5	1.5	-	-	-	-	-	-
6030	40	14	45 x 12.5 x 42.5	9.5	1.5	139063A	N/A -	-	-	-	-



High precision cuvettes with PTFE lid

100	1	0.35	45 x 12.5 x 3.5	9.5	1.5	-	-	139072A	N/A -	139143	N/A -
100	2	0.7	45 x 12.5 x 4.5	9.5	1.5	-	-	139101A	N/A -	139110	N/A -
100	5	1.75	45 x 12.5 x 7.5	9.5	1.5	-	-	139148	N/A -	856264	N/A -
100	10	3.5	45 x 12.5 x 12.5	9.5	1.5	139000A	N/A -	139001A	N/A -	139141	N/A -
100	20	7	45 x 12.5 x 22.5	9.5	1.5	-	-	139144	N/A -	-	-
100	40	14	45 x 12.5 x 42.5	9.5	1.5	-	-	139146	N/A -	-	-
100	50	17.5	45 x 12.5 x 52.5	9.5	1.5	-	-	139108A	N/A -	856267	N/A -
100	100	35	45 x 12.5 x 102.5	9.5	1.5	-	-	139105	N/A -	856268	N/A -



High precision cuvettes with PTFE cap

110	1	0.35	52 x 12.5 x 3.5	9.5	1.5	-	-	139079A	N/A -	856269	N/A -
110	2	0.7	52 x 12.5 x 4.5	9.5	1.5	-	-	139080A	N/A -	-	-
110	5	1.75	46 x 12.5 x 7.5	9.5	1.5	-	-	139166	N/A -	-	-
110	10	3.5	46 x 12.5 x 12.5	9.5	1.5	-	-	139016A	N/A -	139161	N/A -
110	20	7	46 x 12.5 x 22.5	9.5	1.5	-	-	139163	N/A -	-	-
110	50	17.5	46 x 12.5 x 52.5	9.5	1.5	-	-	-	-	-	-



Semi-micro cuvettes

104	5	0.7	45 x 12.5 x 7.5	4	3.2	-	-	139151	N/A -	-	-
104	10	1.4	45 x 12.5 x 12.5	4	3.2	-	-	139004A	N/A -	-	-
104	50	7	45 x 12.5 x 52.5	4	3.2	139149	N/A -	139150	N/A -	-	-
104B	10	1.4	45 x 12.5 x 12.5	4	3.2	-	-	139010A	N/A -	-	-
108	10	1	45 x 12.5 x 12.5	4	9	-	-	139034A	N/A -	-	-
114	10	1.4	46 x 12.5 x 12.5	4	3.2	-	-	139018A	N/A -	-	-
114B	10	1.4	46 x 12.5 x 12.5	4	Black walls / 3.2	-	-	139020A	N/A -	-	-



Micro cuvettes

104.002	10	0.7	45 x 12.5 x 12.5	2	3.2	-	-	139006A	N/A -	-	-
104002B	10	0.7	45 x 12.5 x 12.5	2	Black walls / 3.2	139007A	N/A -	139008A	N/A -	-	-
105	10	0.3	25 x 12.5 x 12.5	2	1.5	-	-	139011A	N/A -	-	-
108.002	10	0.5	45 x 12.5 x 12.5	2	9	-	-	139035A	N/A -	-	-
108002B	10	0.5	45 x 12.5 x 12.5	2	Black walls / 9	-	-	139061A	N/A -	-	-
115	10	0.4	40 x 12.5 x 12.5	2	1.25	-	-	139021A	N/A -	-	-
115B	10	0.4	40 x 12.5 x 12.5	2	Black walls / 1.25	-	-	139022A	N/A -	-	-



139008A

Spacer for 1.2 and 5 mm cells

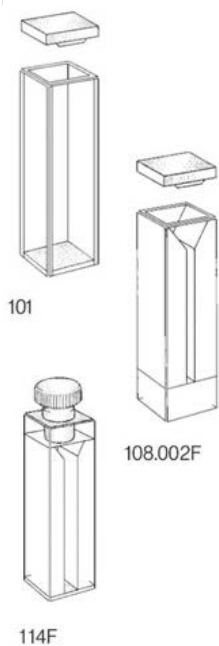
Cat. No.	Description	Price
139076	9 mm spacer for 1 mm cell	N/A -
139077	8 mm spacer for 2 mm cell	N/A -
139078	5 mm spacer for 5 mm cell	N/A -

* Sold by 2, price for 2 cuvettes



ANALYSIS AND MEASUREMENTS

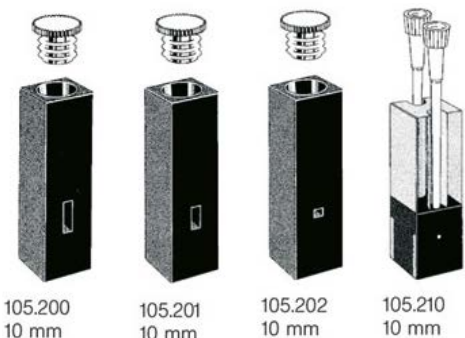
Hellma spectrophotometer cuvettes (continued)



101

108.002F

114F



105.200
10 mm

105.201
10 mm

105.202
10 mm

105.210
10 mm

■ Quartz QS ■

Model Hellma	Optical path	Volume (mL)	H _{ext.} x W _{ext.} x W _{int.} fenêtre (mm)	Number of windows	Base/ bottom thickness (mm)	Cat.No	Price The cuvette
--------------	--------------	-------------	--	-------------------	-----------------------------	--------	-------------------

High precision fluorescence cuvettes - Volume 1 to 3,5 ml - High precision QS quartz quality - External dimensions 45 x 12.5 x 12.5 mm. Models 101 and 104F: macro and semi-micro cuvettes with PTFE cap, 4 windows - Model 114F: semi-micro cuvettes with PTFE cap, 4 windows.

101	10 x 10 mm	3.5	45 x 12.5 x 10	4	-	139024	N/A -
114F	10 x 4 mm	1.4	46 x 12.5 x 4	4	1.25	139030	N/A -
108.002F	10 x 2 mm	0.5	45 x 12.5 x 2	4	9	139032	N/A -

Z = 8.5

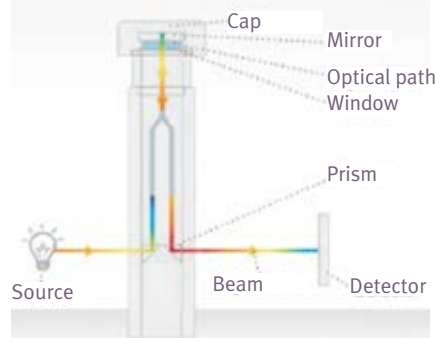
Z = 15

Model Hellma	Optical path	Sample volume/ Total volume (µl)	H _{ext.} (mm)	Window (mm)	Cat.No	Price The cuvette	Cat.No	Price The cuvette
--------------	--------------	----------------------------------	------------------------	-------------	--------	-------------------	--------	-------------------

QS high precision ultra-micro cuvettes - High precision QS quartz quality - External dimensions 45 x 12.5 x 12.5 mm.

105.200QS	10 mm	160 / 180	45	8 x 2	139038	N/A -	-	-
105.201QS	10 mm	100 / 120	45	5 x 2	139055	N/A -	139037	N/A -
105.202QS	10 mm	50 / 70	45	2.5 x 2	139041	N/A -	139036	N/A -
105.210QS10	10 mm	5 / 10	40	ø 8	139040	N/A -	139064	N/A -

Ultra micro TrayCell Cell



- Compatible with Eppendorf biophotometers, Genova spectrophotometers and Jenway Series 67
- OD reading for micro volume of samples: 0.7 to 10 µl
- Nucleic acids (6 to 8.5 ng/µl dsDNA)
- Fluorescence
- Proteins (0.1 to 100 mg/ml)

- UV/visible reading from 190 to 1100 nm
- Excellent reproducibility
- Built-in optical fibre
- Delivered in a box with:
 - 2 caps: optical path 1 mm and 0.2 mm;
 - 2 adapters: beam heights 15 mm and 20 mm;
 - screwdriver for positioning the adapters

Dim L x W x H (mm)	12.5 x 12.5 x 68.5
Window	Quartz suprasil
Beam height (mm)	8.5
Sealing	Epoxy glue
Max temperature (°C)	50
Cat. No.	139071
Price	N/A -

Instructions for use:

- 1) Place the TrayCell in the cell holder
- 2) Place the sample on the window
- 3) Place the cap
- 4) Perform the reading
- 5) Clean the window and the cap: the trayCell is ready for a new reading!

Hellmanex cleaning solution

Hellma cleaning solution for cleaning spectroscopy cuvettes. Use diluted to 10%.



Cat. No.	For photometers	Price
139057	Hellmanex cleaning solution - 1 litre	N/A -

Disposable cuvettes for high precision spectrophotometers

High quality cuvettes for all spectrophotometers, in polystyrene or acrylic. Polystyrene (PS) allows 75% to 80% transmission of light energy from 780 nm to 380 nm, 70% at 340 nm. Acrylic (AC) is UV transmissive and allows 50% of light energy to be transmitted up to 280 nm.

Cat.No	Material	Volume (ml)	Transp. walls	Skirt	Units/ Tray	Units/ box	Price/ box
064005	PS	1	4	Yes	100	500	N/A -
064006	AC	1	4	Yes	100	500	N/A -
064007	PS	4	2	No	100	500	N/A -
064008	PS	4	4	No	100	500	N/A -
064009	AC	4	2	No	100	500	N/A -
064010	AC	4	4	No	100	500	N/A -



Accessory

Cat. No.	Description	Units/ box	Price/ box
064011	Polyethylene cap for cell	500	N/A -

Brand spectrophotometer cuvettes



10 mm optical path. In PS or PMMA.

The 1000 cuvettes are delivered in 10 box of 100 cuvettes of the same mould number.



Cat.No	Description	Material	Volume min. (ml)	Volume max. (ml)	Dimensions window (mm)	Wavelengths	Price/ 10 x 100
090283	Macro cuvette	PS	2.5	4.5	10 x 35	Sup 340 nm	N/A -
090284	Semi-micro cuvette	PS	1.5	3	4.5 x 23	Sup 340 nm	N/A -
090286	Macro cuvette	PMMA	2.5	4.5	10 x 35	Sup 300 nm	N/A -
090287	Semi-micro cuvette	PMMA	1.5	3	4.5 x 23	Sup 300 nm	N/A -

UV visible cuvettes



Caps for Micro cuvettes

For the Micro models, coloured caps allow the cuvettes to be sealed and their contents to be preserved.

- Designed for DNA and sDNA, RNA measurements at 260 and 280 nm
- Two different beam heights
- Sorted by mould number
- Two optical sides
- 10 mm light path

Cat.No	Colour	Material	Price 100 units
090273	Blue	PE	N/A -
090274	Yellow	PE	N/A -
090280	Green	PE	N/A -
090281	Orange	PE	N/A -



UV visible cuvettes

Cat.No	Description	Height beam	Volume min.	Volume max.	Dimensions window (mm)	Wavelengths	Units/ box	Price/ box
090266	UltraVette micro	8.5 mm	70 µl	850 µl	2 x 3.5	220 to 900 nm	100	N/A -
090267	UltraVette micro	8.5 mm	70 µl	850 µl	2 x 3.5	220 to 900 nm	500	N/A -
090268	UltraVette micro	15 mm	70 µl	550 µl	2 x 3.5	220 to 900 nm	100	N/A -
090269	UltraVette micro	15 mm	70 µl	550 µl	2 x 3.5	220 to 900 nm	500	N/A -
090271	UltraVette Semi-micro	-	1.5 ml	3 ml	4.5 x 23	220 to 900 nm	100	N/A -
090272	UltraVette Macro	-	2.5 ml	4.5 ml	10 x 35	220 to 900 nm	100	N/A -

Greiner Bio-One cuvettes

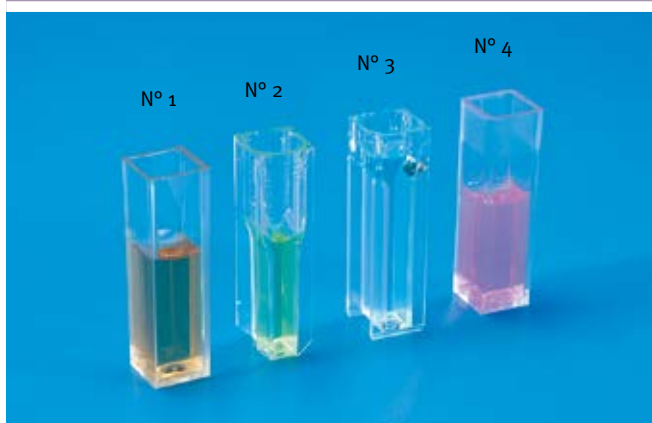


Greiner Bio-One disposable polystyrene cuvettes for all standard spectrophotometers. A polystyrene cap covers the box, which can be closed neatly.

- High quality
- In boxes of 100
- Can be used from 340 to 800 nm

	Microcuvette	Macrocuvette
Volume (ml)	2	4
Material	Polystyrene	Polystyrene
W x H ext. (mm)	12.3 x 45	12.5 x 45
Units/box	100	100
Cat. No.	613101	614101
Price/ box	N/A -	N/A -

Single-use cuvettes for spectrophotometers



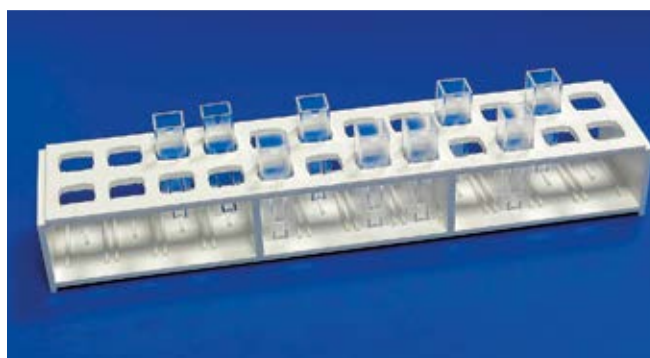
- In polystyrene or PMMA
- Optical Polystyrene: usable from 340 to 800 nm
- PMMA: usable from 280 to 800 nm
- Optical path: 10 mm
- Adaptable cap for round opening (Cat.No. 080151)

Capacity (ml)	1.5	2.5	4.5	4.5
Type	Semi-micro	Semi-micro	4 optical sides	Macro
Opening	Round	Round	Square	Square
Shape	Low	High	Standard	Standard
Photo no	3	2	1	4
Polystyrene cuvettes	391095	391096	391001	391094
Price/ the box of 100	N/A -	N/A -	N/A -	N/A -
PMMA cuvettes	391099	391098	391002	391097
Price/ the box of 100	N/A -	N/A -	N/A -	N/A -

ABS rack for 24 cuvettes

- **ABS Stacking rack** ➤ **L x W x H: 250 x 54 x 37 mm**
- **White with alphanumeric marking**

Cat. No.	Description	Price
39186082	Rack for 24 cuvettes	N/A -



Racks for spectrophotometer cuvettes



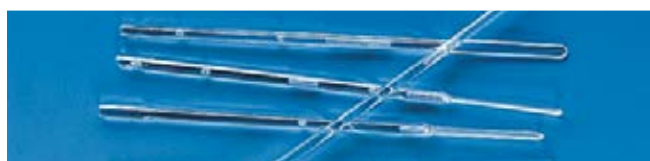
Autoclavable polypropylene racks for 12.5 x 12.5 mm cuvettes

Cat. No.	Description	L x W x H (mm)	Price
045869	Rack with handle for 12 cuvettes	114 x 111 x 111	N/A -
045870	Graduated low rack for 20 cuvettes	209 x 70 x 35	N/A -
090282	Rack for 16 cuvettes	NC	N/A -

Stirring spatulas for cuvettes

- **In single-use polystyrene** ➤ **L x Ø: 120 x 3 mm**

Cat. No.	Description	Price 500 units
091416B	Stirring spatula for cuvettes	N/A -



Standards for spectrophotometry

- **Available as a sealed cuvette or as a solution in a bottle**

Bandwidth standard

Control of the ratio between the peak value at 268.7 nm and the trough value at 266.8 nm. Complies with the European Pharmacopoeia.

Cat.No	Description	Price
440689	Sealed UV cuvettes, bandwidth standard and Blank	N/A -
440690	Bandwidth standard solution 100 ml	N/A -
440691	Blank solution for bandwidth calibration 100 ml	N/A -

Absorbance/transmission and linearity standard in UV (235, 257, 313 and 350 nm)

Control of absorbance measurement for different wavelengths in the UV (linearity of response). Complies with the European Pharmacopoeia.

Cat.No	Description	Price
440692	Sealed UV cuvettes, absorbance standard (potassium dichromate 60 mg/l) and blank	N/A -
440693	Absorbance Standard solution (potassium dichromate 60 mg/l) 100 ml	N/A -
440694	Absorbance standard solution (0.005 M sulphuric acid) 100 ml	N/A -
440695	Sealed UV cuvettes, absorbance standard (potassium dichromate 600 mg/l) and blank	N/A -
440696	Absorbance Standard solution (potassium dichromate 600 mg/l) 100 ml	N/A -
440697	Absorbance standard solution (0.005M sulphuric acid) 100 ml	N/A -

- **NIST-connected certificate**

Resolution standard for derivative spectrophotometry

Complies with the European Pharmacopoeia.

Cat.No	Description	Price
440698	Sealed UV cuvettes, resolution standard and blank	N/A -
440699	Resolution standard solution	N/A -
440704	Blank solution (methanol) for resolution calibration	N/A -

Baseline standard

Stray light control. Complies with the European Pharmacopoeia.

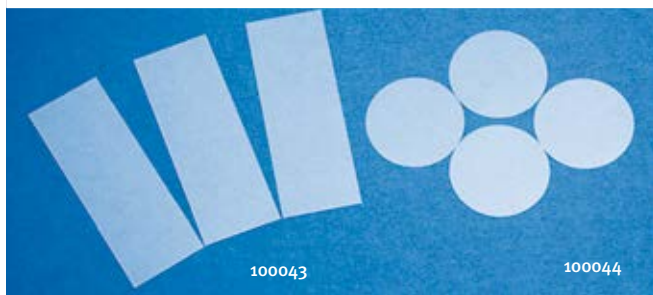
Cat.No	Description	Price
440705	Sealed UV cuvettes, resolution standard and blank	N/A -
440706	Baseline standard solution	N/A -
440707	Blank solution (water) for baseline calibration	N/A -

Wavelength standard from 240 to 640 nm (certified for bandwidths of 0.1 nm, 0.2 nm, 0.5 nm, 1 nm and 2 nm)

Controls the absence of wavelength shift. Complies with the European Pharmacopoeia.

Cat.No	Description	Price
440708	Sealed UV cuvette, Wavelength Standard from 240 to 640 nm	N/A -
440709	Wavelength standard solution from 240 to 640 nm - 12 x 5 ml	N/A -

Glass Coverslips



Models in borosilicate glass - thickness N°1: 0.13 to 0.17 mm

- > Colourless, very low iron content
- > Refractive index suitable for microscopy

Cat. No.	Dimensions (mm)	Price 1000 units	Cat. No.	Dimensions (mm)	Price 1000 units
100030	18 x 18	N/A -	100049	25 x 40	N/A -
100031	20 x 20	N/A -	100268	25 x 50	N/A -
100032	22 x 22	N/A -	100269	25 x 60	N/A -
100265	22 x 30	N/A -	100047	25 x 70	N/A -
100034	22 x 32	N/A -	100045	∅ 10	N/A -
100046	22 x 40	N/A -	100040	∅ 12	N/A -
100266	22 x 50	N/A -	100048	∅ 13	N/A -
100267	22 x 60	N/A -	100041	∅ 14	N/A -
100033	24 x 24	N/A -	140540	∅ 18	N/A -
100035	24 x 32	N/A -	140539	∅ 20	N/A -
100036	24 x 36	N/A -	140541	∅ 22	N/A -
100037	24 x 40	N/A -	140542	∅ 24	N/A -
100038	24 x 50	N/A -	140499	∅ 25	N/A -
100039	24 x 60	N/A -	100042	∅ 28	N/A -
100043	24 x 67	N/A -	100044	∅ 30	N/A -

Economic models - thickness N°1: 0.13 to 0.17 mm

Cat. No.	Dimensions (mm)	Price 1000 units	Cat. No.	Dimensions (mm)	Price 1000 units
100030N	18 x 18	N/A -	100037N	24 x 40	N/A -
100031N	20 x 20	N/A -	100038N	24 x 50	N/A -
100032N	22 x 22	N/A -	100039N	24 x 60	N/A -
100353N	22 x 26	N/A -	100045N	∅ 10	N/A -
100034N	22 x 32	N/A -	100040N	∅ 12	N/A -
100033N	24 x 24	N/A -	100354N	∅ 15	N/A -
100035N	24 x 32	N/A -	-	-	-

Slides



- > Glass slides, degreased, washed, polished, ready to use
- > Dimensions: 26 x 76 mm
- > Thickness: 1 mm
- > In ordinary glass or extra white glass which improves transparency and microscope viewing
- > Packed in boxes of 50
- > ISO 8037/1 Certified

Economy Slides- Standard, washed, ready-to-use Slides.

Edges	2-sided frosted surface	Cat. No.	Price the box of 50
Cut	No	068762	N/A -
Cut	Yes	068763	N/A -
Ground 90°	No	068764	N/A -
Ground 90°	Yes	068765	N/A -

Edges	Frosted area	Standard glass		Extra white glass	
		Cat. No.	Price the box of 50	Cat. No.	Price the box of 50
Cut	No	100000	N/A -	100253	N/A -
Cut	Yes	100001	N/A -	100254	N/A -
Ground 90°	No	100002	N/A -	100255	N/A -
Ground 90°	Yes	100245	N/A -	100256	N/A -
Ground 45°	No	100246	N/A -	100257	N/A -
Ground 45°	Yes	100003	N/A -	100258	N/A -

Microscope slides, large packaging



Standar quality



Quality silver

- > Particularly recommended for analysis of blood, urine, tissue samples and other biological fluids, in vitro diagnostics
- > Dim.: 26 x 76 x 1-1.2 mm
- > Thickness: 1.1 ± 0.1 mm
- > Clear glass
- > Standard quality: with paper between the different slides
- > Silver quality: no paper between the slides

Edges	2-sided frosted surface	Colour	Standard quality		Silver quality	
			Cat.No	Price the box of 2500	Cat.No	Price the box of 2500
Cut	No	-	390998	N/A -	390997	N/A -
Cut	Yes	-	395000	N/A -	390999	N/A -
Ground 45°	No	-	395002	N/A -	395001	N/A -
Ground 45°	Yes	-	-	-	395003	N/A -
Ground 45°	Yes	Orange	-	-	395004	N/A -
Ground 45°	Yes	Light blue	-	-	395005	N/A -
Ground 45°	Yes	White	-	-	395006	N/A -
Ground 45°	Yes	Yellow	-	-	395007	N/A -
Ground 45°	Yes	Pink	-	-	395008	N/A -
Ground 45°	Yes	Green	-	-	395009	N/A -

Coverslips



- > Particularly recommended for analysis of blood, urine, tissue samples and other biological fluids, in vitro diagnostics
- > Thickness: 0.13 - 0.17 mm
- > Clear glass

Cat. No.	Dimensions (mm)	Units/box	Price/box
390989	18 x 18	2000	N/A -
390990	20 x 20	2000	N/A -
390991	22 x 22	2000	N/A -
390992	24 x 24	2000	N/A -
390993	24 x 32	1000	N/A -
390994	24 x 40	1000	N/A -
390995	24 x 50	1000	N/A -
390996	24 x 60	1000	N/A -

Sterile coverslips

- Flux: surface plastic film (188 µm thick), for high resolution confocal microscopy
- For cell adhesion
- Resistant



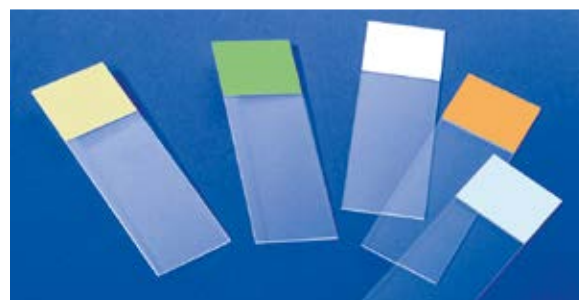
Cat. No.	Ø (mm)	For plate	Units/box	Price/box
330169	9	48 wells	200	N/A -
330164	12	24 wells	200	N/A -
330165	18	12 wells	200	N/A -
330170	25	6 wells	200	N/A -



StarFrost glass slides

- High-definition object slides made of white hydrophilic glass
- High transparency for improved microscope viewing
- Coloured identification area for easy identification of the slide
- Dimensions: 26 x 76 mm, thickness: 1 mm
- Available with CE and IVD marking, please specify when ordering

Edge	White	Yellow	Blue	Pink	Green	Orange	Price the box of 50
Cut	100204	100204J	100204B	100204R	100204 V	100204O	N/A -
Ground 90°	100205	100205J	100205B	100205R	100205 V	100205O	N/A -
Ground 45°	100206	100206J	100206B	100206RS	100206 V	100206O	N/A -
Bevelled ground	100283	100284	100287	100285	100286	100288	N/A -



Cut edge 45° ground edge 90° ground edge Ground edge bevelled

SuperFrost glass slides

- Soda-lime glass
- Dimensions: 26 x 76 mm, thickness: 1 mm

Edge	White	Yellow	Blue	Pink	Green	Price the box of 50
Cut	100204M	100204MJ	100204MB	100204MR	100204 MV	N/A -
Ground 90°	100205M	-	-	-	-	N/A -
Ground 45°	100206M	100206MJ	100206BM	100206MR	100206 MV	N/A -

Superfrost Plus specific treatment slides, Polysine

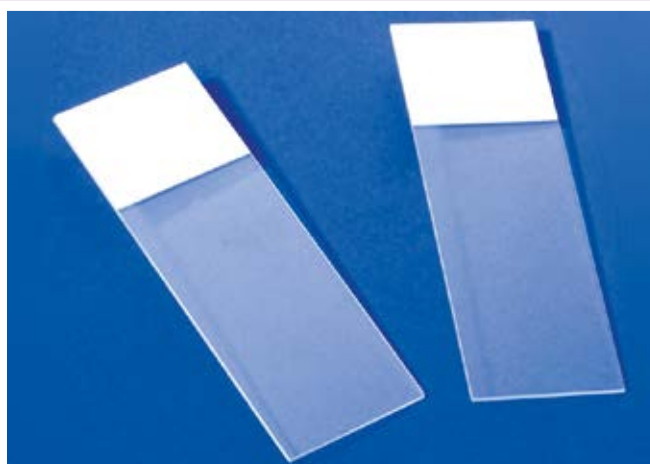
SuperFrost Plus Gold slide

Slide for in situ hybridization, immunocytochemistry, special stains. Special super-adhesion: A special manufacturing technology gives these slides an adhesion that allows tissue fixation without spray or fixative. Instructions for use: leave the slide at room temperature for one minute before applying the tissue, as the fixing power increases with time. Compatible with toluidine blue, hematoxylin, eosin.

- Tissues are covalently fixed ➤ L x W (mm): 75 x 25 mm

ESCO SuperFrost Plus slide

- Super-attachment by positive charge
- Guaranteed dust and grease-free
- Adhesion of frozen samples and cytological preparations to the slide
- No spray, no fixative required
- No dye residues
- L x W (mm): 75 x 25 mm
- Marking surface



ESCO Polysine Microscopy Slide

Special for Molecular biology. Due to its electrostatic properties, the polysin slide has an optimal adhesion to all tissues and cells. Inert to chemicals, heating and enzymatic pre-digestion. Nuclease-free, ideal for DNA hybridisation.

Cat. No.	Description	Units/box	Price/box
045795	Superfrost slide Plus Gold	72	N/A -
045796	Superfrost slide Plus ESCO	72	N/A -
045797	ESCO Polysine Microscopy Slide	72	N/A -

LAB Solute microscope slides



- ▶ Soda-lime glass, washed, defatted
- ▶ Double wrapped with cellophane film
- ▶ CE certified, in accordance with 98/79 EG (IVD)
- ▶ Dimensions 76 x 26 mm, thickness 1 mm
- ▶ Frosted area in 7 colour choices

Edges	Frosted area	Transparent	Price the box of 50	White	Blue	Pink	Yellow	Green	Price the box of 50
Cut	No	452305	N/A -	-	-	-	-	-	-
Cut	Yes	452306	N/A -	452309	452310	452311	452312	452313	N/A -
Ground 45°	Yes	-	-	452316	-	-	452319	452320	N/A -
Ground 45°	No	452308	N/A -	-	-	-	-	-	-
Ground 90°	Yes	452307	N/A -	-	-	-	-	-	-

LAB Solute Adhesive microscope slides



- ▶ Soda-lime glass, washed, defatted
- ▶ Double wrapped with cellophane film
- ▶ CE certified, in accordance with 98/79 EG (IVD)
- ▶ Dimensions 76 x 26 mm, thickness 1 mm
- ▶ White frosted area
- ▶ Positively charged or silanised
- ▶ Super adhesion, no fixative required

Cat. No.	Type	Edges	Area	Price the box of 72
452323	Positive charge (+)	Ground 90°	Frosted white	N/A -
452325	Silanized	Ground 90°	Frosted white	N/A -

StarFrost adhesive glass slides



- ▶ Dimensions: 76 x 26 mm, thickness: 1 mm
- ▶ Available with CE and IVD marking, please specify when ordering

Polycat adhesive StarFrost slides

- ▶ White glass slides with Poly-L-Lysine surface treatment, suitable for cellular adhesion applications
- ▶ Enhanced and secure tissue adhesion, superior to hydrophilic and silanised surfaces
- ▶ Less sensitive to chemicals, enzyme inhibition or heat (° 65 °C), ideal for immunocytochemical and molecular hybridization tests, cell preparation, paraffin-embedded tissue

StarFrost Adhesive slides

- ▶ White glass slides, adhesion-enhanced silane surface
- ▶ This surface treatment allows polarised covalent bonds to be formed on the slide

Edge	White	Yellow	Blue	Pink	Green	Orange	Price the box of 50
Cut	100204A	100289	100292	100290	100291	100293	N/A -
Ground 90°	100301	100302	100305	100303	100304	100306	N/A -
Ground 45°	100294	100295	100298	100296	100297	100299	N/A -
Bevelled ground	100313	100314	100317	100315	100316	100318	N/A -

Edge	White	Yellow	Blue	Pink	Green	Orange	Price the box of 50
Cut	100319	100320	100323	100321	100322	100324	N/A -
Ground 90°	100331	100332	100335	100333	100334	100336	N/A -
Ground 45°	100325	100326	100329	100327	100328	100330	N/A -
Bevelled ground	100343	100344	100347	100345	100346	100348	N/A -

Positively charged microscope slides



- ▶ High transparency glass
- ▶ Frosted area at one end
- ▶ Positive charge to improve adhesion of cells, tissues and all types of samples
- ▶ Dimensions: 25 x 75 mm
- ▶ Thickness: 1.1 mm

Cat. No.	Ground edges	Units/box	Price/box
162610	90°	72	N/A -
162611	45°	72	N/A -

Accessory

Cat. No.	Description	Price
162612	Dispenser for 72 slides 25 x 75 mm	N/A -

Histobond and Histobond+ slides with adhesive surface

- > In white glass or standard glass (only standard for Histobond+ slides)
- > Slide with adherent surface, silanised surface
- > 90° ground edges
- > Dimensions: 75 x 25 x 1 mm
- > 20 mm frosted strip:
 - on both surfaces for Histobond slides
 - in colour on one side for Histobond+ slides



Histobond



Histobond+

Histobond slides

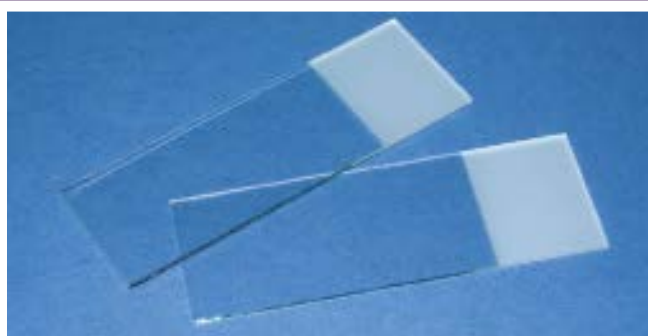
Cat. No.	Glass type	Units/box	Price/box
140659	White	50	N/A -
140660	White	100	N/A -
140679	Standard	50	N/A -
140680	Standard	100	N/A -

Histobond+ slides

White	Yellow	Green	Blue	Pink	Orange	Units/box	Price/box
140681	140682	140683	140684	140685	140686	100	N/A -

GHÄSEL glass slides

- > Water-repellent surface treatment for optimum spreading of the drop on the slide
- > Indispensable in human biology
- > ISO 8037
- > 76 x 26 mm, thickness: 1.1 mm, 90° corners



Cat. No.	Edge type	2-sided frosted surface	Units/box	Price/box
069262	Untreated	Yes	50	N/A -
069263	Untreated	No	50	N/A -
069264	Ground	No	50	N/A -
069265	Ground	Yes	50	N/A -

Glass slides and coverslip for large cuts

Cat. No.	Description	Dim. (mm)	Thickness (mm)	Pack unit.	Units/box	Price/box
100120	Coverslip	50 x 65	0.13 to 0.17	100	1000	N/A -
100008	Slide	76 x 50	1	50	100	N/A -



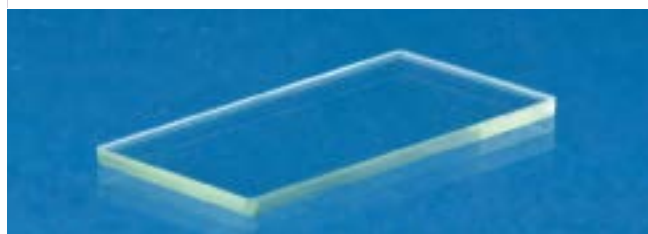
Glass spreader slide



- > For spreading the sample on the slide

Cat. No.	Dimensions (mm)	Thickness (mm)	Units/box	Price/box
069271	50 x 20	1	50	N/A -

Blood spreader slides



- > Dimensions: 20 x 40 x 1.6 mm
- > 2 polished sides, ground bevelled edges

Cat. No.	Description	Price
065215	UNDRITZ Blood Spreader Slide	N/A -

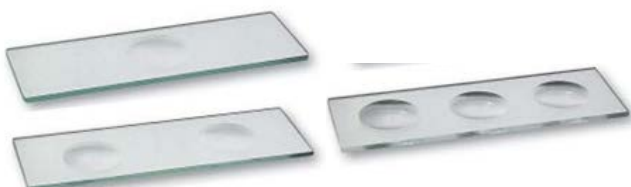
Glass slides for cell examination



- 2 concavities
- Dimensions: 1.2 x 26 x 76 mm

Cat. No.	Ø (mm)	Thickness (mm)	Number of concavities	Units/box	Price/box
810674	15	1.2	2	50	N/A -

Glass cell slides



Glass slides in microscope slide format 76 x 26 mm. With cells for binocular observation of biological samples in their environment.

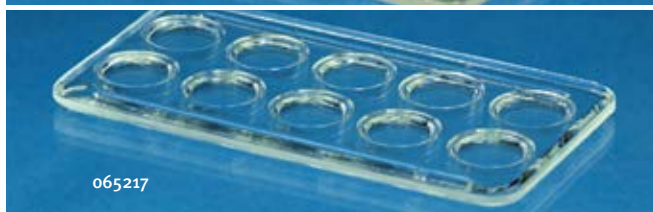
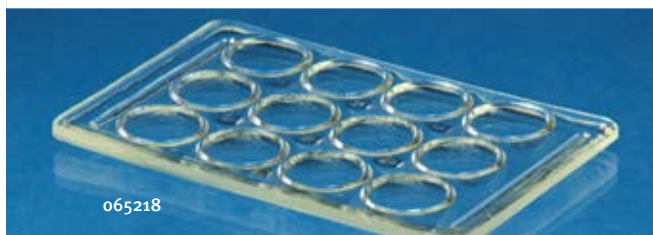
Cat. No.	Number cells	Ø cell (mm)	Units/box	Price/box
020300B	1	14	50	N/A -
020301B	2	14	50	N/A -
020302B	3	15	50	N/A -

76 x 26 mm slides with cavities



Cat. No.	Number of cavities	Thickness (mm)	L x W (mm)	Price
065227	1	1.5	76 x 26	N/A -
065228	2	1.5	76 x 26	N/A -
065229	3	1.5	76 x 26	N/A -
065230	1	3-4	76 x 26	N/A -

Glass cavity plates



Cat. No.	Number of cavities	Ø cav. (mm)	Depth. cav. (mm)	L x W x H (mm)	Price
065217*	10	-	-	105 x 55 x 5	N/A -
065218	12	-	-	89 x 57 x 4	N/A -
065219**	12	20	-	109 x 90 x 7	N/A -
065221***	12	16	1.8	76 x 60 x 5	N/A -
065222	24	16	1.6	140 x 85 x 3	N/A -

* Börner type slide** Porcelain plate *** Polished cavities

Aspirette



- Vacuum suction apparatus
- For moving and positioning flat objects up to 70 g
- On 230 V battery
- Supplied with: 1 power socket, 1 charger, 3 suction nozzles and 3 tips of 3.2 mm, 6 mm and 10 mm diameter

Cat. No.	Description	Price
502146	Aspirette	N/A -

PEN VAC Vacuum pen



- Set of 2 vacuum pens
- For moving and positioning flat objects up to 70 g
- Aluminium body
- Supplied with: 6 tips (3 straight and 3 curved) and conductive silicone suction cups in diameters of 3.18 mm, 6.35 mm and 0.53 mm (2 each)

Cat. No.	Description	Price 2 units
848300	PEN VAC Vacuum pen	N/A -

Hydrophobic markers with coloured lines



- Hydrophobic markers, quick drying
- Suitable for frozen and paraffin surfaces
- Detergent resistant (Tween 20, Triton X100)

Red	Orange	Green	Blue	Yellow	Violet	Price
594000	594001	594002	594003	594004	594005	N/A -

Diamond tip markers

Diamond-tipped slide engraving marker.

- Length: 155 mm
- Designed for writing on microscope slides
- Plastic or wooden body

Cat.No	Description	Price
046100	Diamond tip pen with plastic body	N/A -
140603	Diamond tip pen with wooden body	N/A -
046105	Refill for pen	N/A -



Hydrophobic markers for immunostaining



- To draw a hydrophobic circle around a sample
- Insoluble in alcohol and acetone, can only be removed with xylene

Cat. No.	Description	Tip thickness (mm)	Price
490000	PAP Immunostaining Pen Marker fine	2	N/A -
490001	PAP Immunostaining Pen Marker, thick	5	N/A -

Marker II Superfrost Laboratory Markers for Histology

- For histology and cytology
- Permanent ink resistant to solvents such as xylene, alcohol, acetone, formalin
- Red
- Not resistant to chloroform

Cat.No	Colour	Price
686009	Red	N/A -



Electric engraver

- For marking tubes, racks
- For writing on glass, wood, plastic, metal, stone, bone
- Without cord
- Requires two AA batteries (not included)
- Additional engraving point
- Length 17.8 cm
- Stand sold separately
- Dimensions W x H: 8.9 x 8.6 cm

Cat.No	Description	Price
088748	Battery operated electric engraver	N/A -
088749	Vertical support	N/A -



Retractable tip engraver

Engraving pen with retractable tungsten carbide tip, suitable for glass, ceramics and plastic.

Cat.No	Description	Price
045884	Retractable tip engraver	N/A -



Labels for microscope slides



Adhesive labels in assorted colours for microscope slides.

- High solvent and temperature resistance (-70 °C to +100 °C)
- L x W: 22 x 22 mm
- Presented on sheets of 96 printer labels

Orange	Blue	Green	Red	White	Yellow	Assorted	Price box of 2400
053156	053154	053155	053157	053006	053158	053159	N/A -

Glass plates for haematology



Cat. No.	Description	Price
049286	Solid glass plate 20 x 10 cm	N/A -
049440	Solid glass plate 20 x 20 cm	N/A -
049241	Solid glass plate 10 x 10 cm	N/A -
049263	Solid glass plate 16 x 14 cm	N/A -

Suction cup for slide and coverslip



- Suitable for slides and coverslips
- Non-scratch
- Avoids air bubbles in the mounting medium
- Robust

Cat. No.	Description	Price
900515	Suction cup for slide and coverslip	N/A -

Super glue for inclusion



- 3-tube pack
- Capacity of one tube: 1 g
- Ultra-fast: 10 seconds

Cat. No.	Description	Price
999227	Superglue-3 liquid glue tubes 1 g - set of 3	N/A -

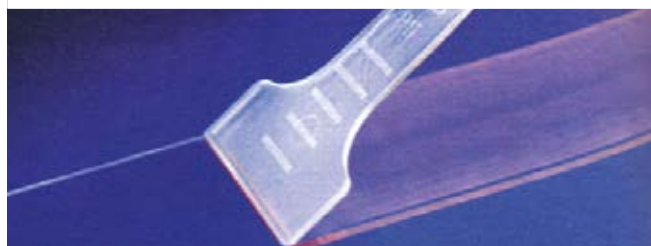
EUKITT® Inclusion Balm



- Quick-hardening
- Solidification in 20 min.

Cat. No.	Description	Price
045798	Inclusion Balm - 100 ml bottle	N/A -
045799	Inclusion Balm - 250 ml bottle	N/A -

Spatula for microscope slides



- Spatula for spreading samples on slides
- Smooth application without streaking
- Two sides: one with a right angle, the other with cut corners
- In translucent polystyrene

Cat. No.	Description	Units/box	Price/box
050125	Flex-Strips spatula for slides	50	N/A -

EUKITT® microscopy mounting resins

EUKITT® Classic



- Solidification in 20 min.
- Good long-term preservation of samples
- No autofluorescence under UV light
- Ideal viscosity for coverslippers
- Refractive index $n[20\text{ }^{\circ}\text{C}]$: 1.49
- Viscosity: 500 - 750 mPa.s

Cat. No.	Description	Price
124103	EUKITT® Classic - 100 ml bottle	N/A -
124104	EUKITT® Classic - 250 ml bottle	N/A -
124105	EUKITT® Classic - 500 ml bottle	N/A -

EUKITT® neo

- Solidification in 20 min.
- Xylene-free formulation
- No autofluorescence under UV light
- Does not modify the structure or colour of the material under study
- Refractive index $n[20\text{ }^{\circ}\text{C}]$: 1.48
- Viscosity: 250 - 450 mPa.s

Cat. No.	Description	Price
124100	EUKITT® neo - 100 ml bottle	N/A -
124101	EUKITT® neo - 250 ml bottle	N/A -
124102	EUKITT® neo - 500 ml bottle	N/A -

EUKITT® UV

- Dry in 30 seconds under UV light
- Compatible with all types of tissues
- Neutral and colourless
- Contains no solvents or organic molecules
- Allows twice the number of samples to be processed with the same volume
- Refractive index $n[20\text{ }^{\circ}\text{C}]$: 1.48
- Viscosity: 350 - 550 mPa.s

Cat. No.	Description	Price
124106	EUKITT® UV - 100 ml bottle	N/A -

Cellpath OCT cryostat medium

- Support for tissue sections in the cryostat
- Freezes quickly, prevents the formation of crystals that can damage tissue
- Easy to use thanks to the dropper bottle
- Liquid level remaining easily observable
- Temperature range: -20 to -30 °C



Cat. No.	Description	Price
050226	OCT Cellpath 125 ml	N/A -

Citramount mounting medium

- Butyl acetate-acrylic mounting medium
- Developed specifically for direct mounting of coverslips on d-limonene or xylene treated samples
- Solidification in less than 24 hours
- Do not use with automated coverslippers
- Refractive index: 1.484
- Viscosity: 90 mPa.s



Cat. No.	Description	Price
494336	Citramount - 100 ml dropper bottle	N/A -
494337	Citramount - 500 ml bottle	N/A -

Poly/Mount mounting medium

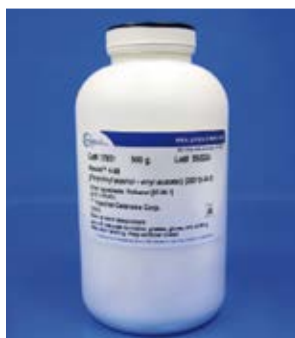
- Water-insoluble, toluene-based mounting medium miscible with xylene or toluene
- Preserves the majority of organic dyes
- Ideal viscosity, prevents bubbles from forming and allows optimum adhesion of the coverslip
- Suitable for long-term storage of histological sections (no yellowing of the mounting medium)
- Refractive index: 1.484
- Viscosity: 192 mPa.s



Cat. No.	Description	Price
494342	Poly/Mount - 120 ml dropper bottle	N/A -
494343	Poly/Mount - 940 ml bottle	N/A -

Mowiol 4-88 powder for the preparation of mounting media

- Mounting medium for glycerine addition immunofluorescence
- Compatible with molecular biology applications
- Preserves the colour of samples (by addition of p-phenylenediamine)
- Refractive index identical to that of immersion oil
- Solidification in 12 hours



Cat. No.	Description	Price
494338	Mowiol 4-88 500 g	N/A -
494339	Mowiol 4-88 1 kg	N/A -

Aqua-Poly/Mount mounting medium

- Water-soluble, non-fluorescent mounting medium
- Ideal for direct mounting of coverslips on samples in aqueous media
- Compatible with fluorescent dyes and samples, as well as frozen samples
- Solidification in 24-48 hours at 20-50% relative humidity
- Compatible with automated coverslippers
- Refractive index: 1.454 - 1.460
- Viscosity: 390 mPa.s



Cat. No.	Description	Price
494333	Aqua-Poly/Mount - 20 ml bottle	N/A -
494334	Aqua-Poly/Mount - 100 ml bottle	N/A -
494335	Aqua-Poly/Mount - 5 x 20 ml bottles	N/A -

Polyglass mounting medium

- Toluene-based mounting medium, replaces the use of coverslips
- Ideal for samples of irregular thickness, causing air bubbles to form under the coverslip
- Scratch resistant
- Does not change the colour of the samples
- Refractive index: 1.48
- Viscosity: 149 mPa.s



Cat. No.	Description	Price
494340	Polyglass - 120 ml dropper bottle	N/A -
494341	Polyglass - 6 x 120 ml dropper bottles	N/A -

Polyfreeze tissue embedding and freezing medium

- Freezes quickly, ideal for cryostat tissue cutting
- Supports up to 3 µm cut thickness
- Cutting temperature range: -8 to -25 °C
- For fast freezing of specimen included in Polyfreeze, it is recommended to use with isopentane and liquid nitrogen or dry ice
- Recommendation for storage of the included samples: -80 °C airtight boxes or liquid nitrogen canisters
- Polyfreeze Colored media makes differentiating multiple specimens easy



Cat. No.	Description	Price
494328	Polyfreeze 120 ml - clear	N/A -
494329	Polyfreeze 120 ml - green	N/A -
494330	Polyfreeze 120 ml - yellow	N/A -
494331	Polyfreeze 120 ml - red	N/A -
494332	Polyfreeze 120 ml - blue	N/A -

Staining tray for 10 or 20 slides



- For routine staining of samples that require a humid environment
- For immunohistochemistry, haematology, cytology and microbiology
- Stackable, With four rubber feet
- The black ABS base can hold up to 20 slides positioned on the non-slip rails
- The base acts as a reservoir for the excess liquid or as a humidifier

Two lids:

- a transparent PETG lid for viewing the samples, usable from -20 °C to 60 °C;
- a black lid for fluorescence incubations. Made of ABS, usable from -80 °C to + 80 °C.

Trays for 10 slides - L x D x H (mm): 240 x 240 x 45

Cat. No.	Description	Price
040200	Staining tray for 10 slides with clear lid	N/A -
040201	Staining tray for 10 slides with black lid	N/A -
040202	Clear lid alone	N/A -
040203	Black lid alone	N/A -

Trays for 20 slides - W x D x H (mm): 380 x 240 x 45

Cat. No.	Description	Price
040204	Staining tray for 20 slides with clear lid	N/A -
040205	Staining tray for 20 slides with black lid	N/A -
040206	Clear lid alone	N/A -
040207	Black lid alone	N/A -

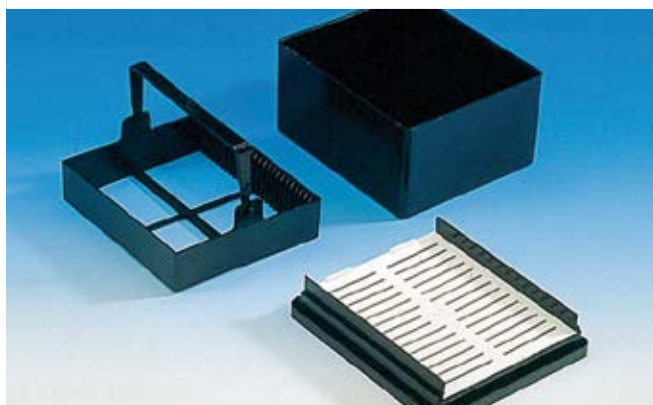
Staining tray for 8 slides



- Tray for 8 slides
- Made of mixed polypropylene and polyethylene
- With liquid collection bottom of 38 ml volume
- Compact size: 305 x 127 x 29.50 mm
- Lid with integrated grip handle and black tray for light-sensitive products
- Supplied in packs of 4 with a lid

Cat. No.	Description	Price
047672	Single-use staining tray (all 4 + 1 lid)	N/A -

Black dye trays for light-sensitive products



➤ Staining trays in three parts:

- staining tray
- slide holder for 25 slides
- waterproof lid

➤ In POM

➤ Folding handle on the slide-holder

Cat. No.	Description	Price
781342B	Black POM slide holder	N/A -
781343B	Staining tray only	N/A -

Glass staining tanks



Soda-lime glass containers. Consists of a cuvette, a basket and stirrup (each part to be ordered separately).

For 20 slides 76 x 26 mm back to back.

Cat. No.	Description	L x W x H (mm)	Price
068506	Tank with lid	105 x 85 x 75	N/A -
068507	Basket (without handle)	90 x 70 x 60	N/A -
068508	Handle (steel wire)	-	N/A -

Coplin staining jar



Soda-lime glass jars with lid, Coplin type.

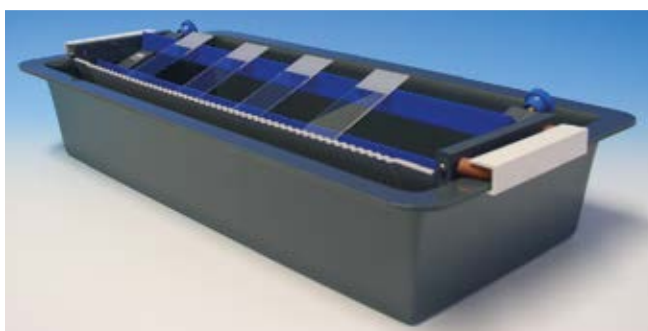
Capacity: 5 slides 76 x 26 mm or 10 slides back to back.

Cat. No.	Ø x H (mm)	Units/box	Price/box
068512	73 x 105	1	N/A -
4904355	90 x 115	1	N/A -
4904354	90 x 115	10	N/A -

Extendable tilt rack for 10 slides

Plexiglas rack, capacity 10 slides. PVC cuvette.

Cat. No.	Description	Price
065208	Staining tray and rack 380 x 170 x 80 mm (complete set)	N/A -
065210	Staining tray 380 x 170 x 80 mm alone	N/A -
065232	Extendable tilt rack for 10 slides only	N/A -



Columbia staining jars

- Staining jar for 4 slides up to 22 mm width
- In soda-lime glass
- Teflon coated polyethylene screw cap
- For coverslips coating with e.g. Poly-D-Lysine or coverslip pre-cleaning



Cat. No.	Description	Units/box	Price/box
048813	Columbia staining jar	1	N/A -
048814	Columbia staining jar	6	N/A -

Coplin jars

- Made of polypropylene
- Autoclavable with unscrewed lid
- For 10 slides back to back
- Ø x H: 59 x 114 mm



Cat. No.	Description	Price
085101	Coplin jar	N/A -

50 slide staining jars

- For 50 slides of sizes 75 x 25 mm or 75 x 38 mm or 75 x 51 mm
- L x W x H ext. / int.: 200 x 105 x 83 mm / 185 x 88 x 68 mm
- Stainless steel rack resistant to most staining solutions
- Permanent removable handle for closing the jar and easy addition/removal of slides

Cat. No.	Description	Price
048903	Complete staining jar	N/A -
048904	Jar only	N/A -
048905	Lid only	N/A -
048906	Jar and lid	N/A -
048907	Rack only	N/A -



Coplin staining jar with screw lid

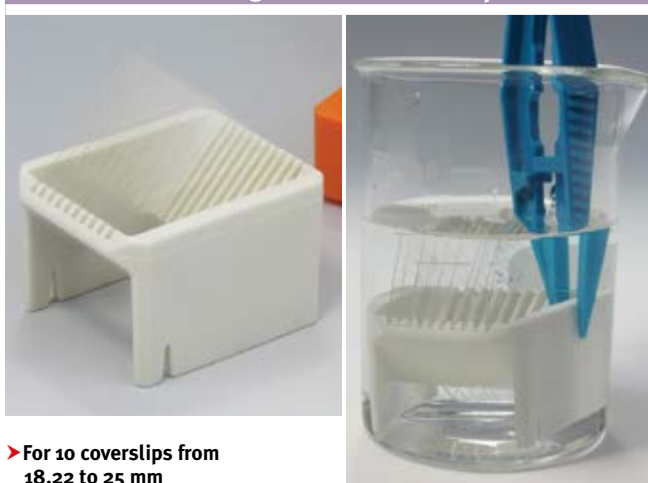


- Jar for 10 slides 75 x 25 mm
- Top opening for handling without forceps
- Polypropylene screw-on lid reduces evaporation
- Rectangular base, internal dimensions 26 x 26 x 70 mm
- Contains approximately 55 ml

Cat. No.	Description	Units/box	Price/box
048909	Staining jar with white PP lid	1	N/A -
048910	Replacement lid	6	N/A -
048911	Staining jar with white PP lid*	1	N/A -

* Int. dimensions (L x W x H): 26 x 26 x 90 mm

Cleaning rack for coverslips



- For 10 coverslips from 18.22 to 25 mm
- In polypropylene, Autoclavable
- Good chemical and thermal resistance
- Dimensions (L x W x H): 39 x 30 x 25 mm

Cat. No.	Description	Price
053492	Cleaning rack for 10 coverslips	N/A -

Glass jar with glass or stainless steel rack



- ▶ Accepted slide sizes: 75 x 25 mm / 75 x 38 mm / 75 x 51 mm
- ▶ Int. dimensions (L x W x H): 118 x 88 x 70 mm
- ▶ Glass rack with handle for 16 slides, 31 diagonally or 32 back to back
- ▶ Stainless steel rack with permanent removable handle for 30 slides

Cat. No.	Description	Price
048810	Glass jar with lid	N/A -
048827	Glass rack with handle	N/A -
048899	Stainless steel rack with handle	N/A -

Staining jars for slides



Jars

- ▶ Made of acetal polymer
- ▶ Resistant to alcohol and xylene but not to phenol
- ▶ For 80 ml of reagent
- ▶ Can be used from - 170 °C to 121 °C, autoclavable
- ▶ Dimensions: 64 x 76 x 92 mm

Colour	Blue	Green	Pink	White	Yellow	Price/ 6 units
Cat. No.	040677	040678	040679	040680	040681	N/A -

Staining rack

- ▶ Holds up to 12 microscope slides
- ▶ Ideal for microwave procedures (up to 120 °C)
- ▶ L x W x H: 60 x 64 x 97 mm
- ▶ To be used in Easy Dip staining jars

Cat. No.	Description	Units/ box	Price/ box
040676	Staining rack for 12 slides	6	N/A -
040676A	Staining rack for 12 slides	1	N/A -

Jars + rack kits

Cat. No.	Description	Price
040682	Kit of 5 jars + 1 staining rack	N/A -
930602	Kit of 6 jars + 1 staining rack + 1 aluminium rack	N/A -

Accessory

Cat. No.	Description	Price
040863	Aluminium rack	N/A -



Borel jar



Soda-lime glass Borel cylinder with lid.

- ▶ \varnothing x H: 40 x 80 mm
- ▶ Capacity: 3 slides 76 x 26 mm

Cat.No	Description	Price/ the box of 10
068513	Borel cylinder	N/A -

Porcelain staining jar



Staining jar with porcelain lid.

- ▶ For 10 slides 76 x 26 mm
- ▶ L x W x H: 70 x 40 x 86 mm

Cat. No.	Description	Price
068514	Porcelain staining jar	N/A -

Hellendahl staining jar

- > In PMP (TPX)
- > For 8 slides in vertical position or 16 slides back to back
- > L x W x H: 58 x 54 x 86 mm
- > Xylene causes chemical attack of plastic after two days of permanent exposure at room temperature



Cat. No.	Description	Price
391059	Helledahl staining jar	N/A -

Schifferdecker staining jar

- > In PMP (TPX)
- > For 10 slides in vertical position or 20 slides back to back
- > L x W x H: 85 x 70 x 50 mm
- > Xylene causes chemical attack of plastic after two days of permanent exposure at room temperature



Cat. No.	Description	Price
391060	Schifferdecker staining jar	N/A -

Staining jar with two lids



- > In PMP (TPX)
- > Can be used with or without a polypropylene rack for 20 slides
- > Easily opened lid for easy use of the rack during the staining process

Cat. No.	Description	L x W x H (mm)	Price
391057	Staining jars	81 x 101 x 70	N/A -
391058	Rack 20 slides	Including stem height: 167 L x W: 70 x 86 (jar: 81 x 101)	N/A -

Vertical staining jar

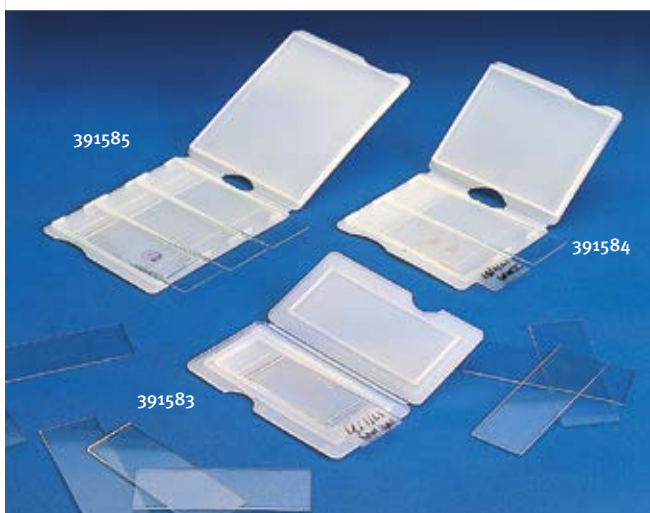


- 2 models:
- vertical rectangular jar;
- vertical oval jar (Joly jar).

- > Glass
- > Autoclavable
- > With lid

Cat. No.	Model	Dimensions (mm)	Price
065213	Rectangular	L x W x H = 40 x 20 x 85 mm	N/A -
065214	Oval	ø x H = 40 x 85 mm	N/A -

Shipping tray for slides



- > Made of polyethylene
- > For shipping 76 x 26 mm slides
- > Each slide has its own compartment with a guide rail to avoid damaging the preparations

Cat. No.	Dimensions L x W x H (mm)	Number of spaces	Units/box	Price/box
391583	98.8 x 50.6 x 6.4	1	10	N/A -
391584	70 x 84 x 6	2	10	N/A -
391585	84 x 97 x 6	3	10	N/A -

Unimailer Shipping tray for one slide



Ingenious plastic tray for shipping a 76 x 26 mm microscope slide.

- > Made up of a single side without a lid, the tray is closed using another tray
- > Marking surface
- > Guaranteed closure and locking by a clip system
- > A hole allows it to be sealed with a tamper-proof tie
- > Allows the transport and shipment of an unlimited number of slides by simply overlapping and clipping the trays together
- > L x W x H: 89 x 29 x 6 mm

Colour	Blue	Green	Pink	White	Yellow	Units/box	Price/box
Cat. No.	039746	039747	039748	039749	039750	50	N/A -

Lockmailer Transport jars for microscope slides

- ▶ Polypropylene tube, HDPE cap, Skirted
- ▶ For 4 slides
- ▶ With screw cap and tamper evident tab
- ▶ Low internal fluid volume (12 ml)
- ▶ Dimensions \varnothing x H: 35 x 87 mm
- ▶ Complemented by coloured polypropylene inserts, to be fitted into the cap for easy identification



Cat. No.	Description	Price 500 units
040684	Lockmailer Transport jar for 4 slides	N/A -

Capinserts for Lockmailer

	Mixed	Blue	Green	Purple	Red	Yellow	White	Grey	Pink	Violet	Orange
Cat. No.	039365	039371	039372	039374	039377	039380	039379	039373	039376	039378	039375
Price/ 500 units	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

Shipping mailer for 5 slides

Polypropylene containers hold 5 standard slides 76 x 26 mm with hinged lid and lock. 2 versions: side opening (horizontal mailer) or end opening (vertical mailer).

Cat. No.	Description	Units/ box	Price/ box
037530	Horizontal mailer 5 slides	25	N/A -
037531	Vertical mailer 5 slides	25	N/A -
037767	Vertical mailer - assorted colours (5 mailer of each colour): red, yellow, blue, purple and orange	25	N/A -



Plastic shipping trays

Trays for 1 or 2 slides 76 x 26 mm with lockable lid. Assorted colours: red, yellow, blue, purple and orange.

Cat. No.	Number of slides	Colour	Units/ box	Price/ box
037525	2	Natural	25	N/A -
037529	2	Assorted	25	N/A -
320650	1	Natural	50	N/A -



Boxes for 100 microscope slides

- ▶ ABS and polypropylene for 100 microscope slides 26 x 75 mm
- ▶ L x W x H ext.: 20.7 x 19.5 x 3.2 cm
- ▶ 5 colours to choose from for easy identification and filing
- ▶ With digital marking in the centre and identification sheet on the inside of the replaceable box (see accessory)
- ▶ Side storage for small objects (pen, dissecting tools)
- ▶ Sliding lock on the side

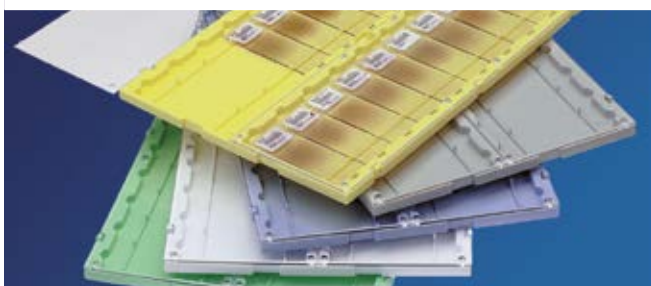
Cat. No.	Colour	Price
320625	Blue	N/A -
320626	Orange	N/A -
320627	Green	N/A -
320628	Red	N/A -
320629	Violet	N/A -
320630	Assortment of 5 colours	N/A -



Accessory

Cat. No.	Description	Units/ box	Price/ box
320631	Replacement inventory card	10	N/A -

Plastic storage binder for 20 slides

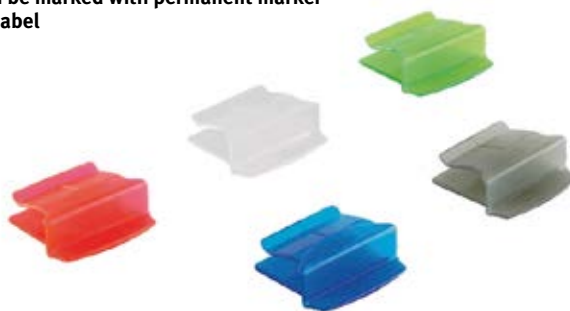


- For 20 slides 26 x 76 mm
- Numbered tray and double transparent plastic flap for viewing and identifying slides without opening
- Choice of 5 colours
- Easy grip design of the slides
- L x H x D.: 192 x 292 x 11 mm

Colour	Blue	Green	Grey	Yellow	White	Mixed	Price 10 units
Cat. No.	039740	039741	039742	039744	039904	039745	N/A -

Holding clamps

- Assorted colours, ideal for identification
- Holds slide trays closed
- Can be marked with permanent marker or label



Cat. No.	Colour	Dimensions L x W x H (mm)	Units/ box	Price/ box
320652	Assorted (transparent, grey, blue, green, red)	5.6 x 4.4 x 1.6	100	N/A -
320653	Transparent	5.6 x 4.4 x 1.6	100	N/A -

Slide holder tray



- Made of white PVC, for easy viewing of cuts
- For 76 x 26 mm standard slides, histology slides, pathology slides

Cat. No.	Capacity	Dimensions (mm)	Packaging	Price
391055	20	190 x 340 x 8	10 units	N/A -
391056	40	190 x 660 x 8	5 units	N/A -

Cardboard trays for 20 or 30 slides



- For standard slides 75 x 25 mm
- White bottom with coloured bound (black, blue, green, red or yellow)

Cat. No.	Number of slides	Colour	W x D x H (mm)	Price
037515	20	Black	208 x 341 x 9	N/A -
037995	20	Blue	208 x 341 x 9	N/A -
037996	20	Green	208 x 341 x 9	N/A -
320149	20	Red	208 x 341 x 9	N/A -
320150	20	Yellow	208 x 341 x 9	N/A -
037498	30	Black	281 x 328 x 10	N/A -

Cardboard trays for microscope slides



- Made of thick cardboard, with folding cardboard lid
- For storage or shipping of 76 x 26 mm microscope slides
- For 1 to 20 slides

Cat. No.	For	Price
065200	1 slide	N/A -
065201	2 slides	N/A -
065202	3 slides	N/A -
065203	5 slides	N/A -
049803	6 slides	N/A -
065204	10 slides	N/A -
065205	20 slides	N/A -
049801	20 slides (tray without folding cover)	N/A -

Microscope slide dispenser

For neatly storing and distributing microscope slides one after the other.

- **ABS and PS dispenser**
- **Separate exit of the slides by rotating the side rollers**
- **Capacity: 50 slides**
26 x 76 mm
- **L x W x H:**
100 x 120 x 140 mm



Cat. No.	Description	Price
085100	Slide dispenser	N/A -

Slide holder for 5 to 10 slides



- **In ABS**
- **Screw neck**
- **∅ x H: 40 x 90 mm**
- **Possibility of tamper-proof closure of the case**
- **For shipping or storage of 5 to 10 slides**

Cat. No.	Description	Price 10 units
391054	Slide holder for 5 to 10 slides	N/A -

Drying racks

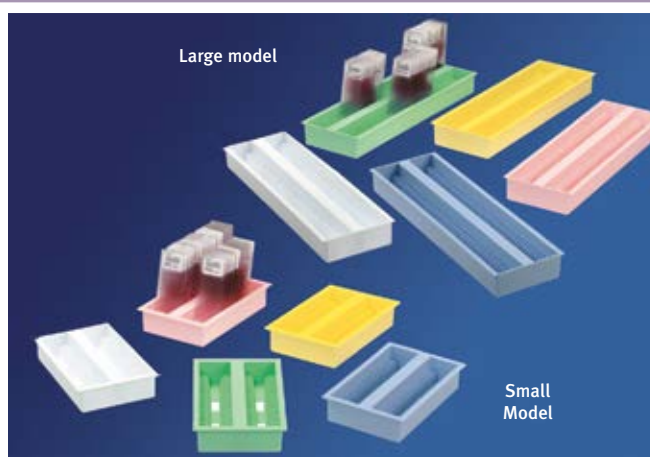
Racks made of high-strength polystyrene for storing or drying vertically placed microscope slides.

L x W x H large model: 75 x 213 x 25 mm.

L x W x H small model: 75 x 125 x 25 mm.

- **Easy to read slides**
- **Bar code reading capability**
- **Storage of one or two slides per groove**

Colour	Slides capacity	Blue	Green	Pink	White	Yellow	Price 10 units
Large model	10 to 200	039730	039731	039732	039733	039734	N/A -
Small model	50 to 100	039735	039736	039737	039738	039739	N/A -



Supports for 15, 40 or 78 slides

- **For drying standard slides (75 x 25 mm)**
- **Made of chemical-resistant polyethylene**

Cat. No.	Dimensions (mm)	Number of slides	Price
037777	153 x 102 x 21	15	N/A -
037778	298 x 105 x 24	40	N/A -
037779	299 x 178 x 21	78	N/A -



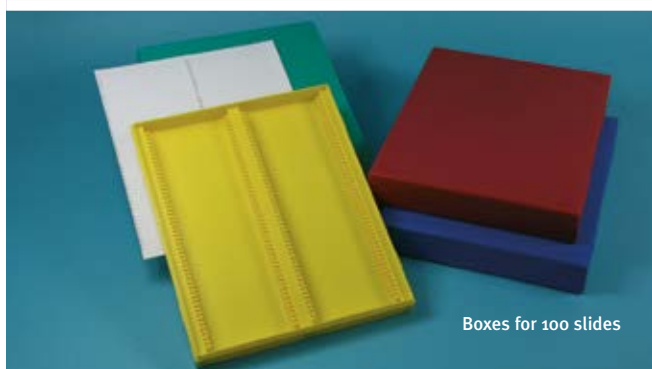
Histology chambers



- ▶ Polystyrene, designed to preserve internal humidity
- ▶ Stackable
- ▶ For 10 slides
- ▶ Ideal for immunology applications
- ▶ L x W x H ext.: 20.6 x 16 x 3 cm / L x W chamber: 7.8 x 2.8 cm
- ▶ Compartments separated by a 1.2 cm gap, closed when the lid is closed
- ▶ Slides placed on 4 blocks to protect them from water and facilitate their removal from the chamber

Cat. No.	Description	Units/box	Price/box
064108	Histology chamber, light colour	3	N/A -
064109	Histology chamber, black	3	N/A -

Slip lid boxes for microscope slides

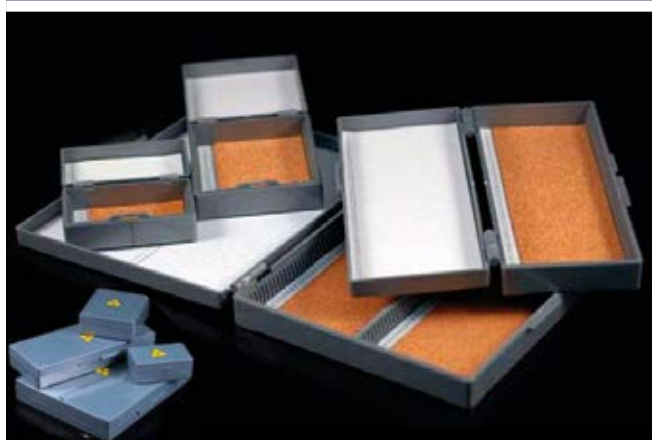


Boxes for 100 slides

- ▶ Hingeless boxes with slip lid
- ▶ For 25, 50 or 100 slides of 76 x 26 mm
- ▶ Made of non-autoclavable polystyrene
- ▶ With index card
- ▶ Numbered slots

Capacity	25 slides	50 slides	100 slides
Dimensions (mm)	96 x 122 x 35	100 x 230 x 35	185 x 230 x 35
Blue	139529	139533	139537
Green	139530	139534	139538
Red	139531	139535	139539
Yellow	139532	139536	139540
Price	N/A -	N/A -	N/A -

ABS boxes for microscope slides



- ▶ For storage and transport of 26 x 76 mm microscope slides
- ▶ Made of ABS, more impact resistant than polypropylene or polystyrene
- ▶ Can be used from - 10 °C to + 50 °C
- ▶ Biohazard marking on the lid
- ▶ Hinged lid and secure clip closure
- ▶ Numerical index

Cat. No.	Capacity	Ext. dimension W x D x H (mm)	Price
390855	12 slides	50 x 80 x 30	N/A -
390856B	25 slides	95 x 80 x 30	N/A -
390857	50 slides	80 x 200 x 30	N/A -
390858	100 slides	160 x 200 x 30	N/A -

Hinged lid boxes for microscope slides



Polystyrene boxes for the storage of 76 x 26 mm slides. The box for 100 slides has a clip closure and a hinged lid.

- 3 models
- For 25 slides: 135 x 90 x 32 mm
- For 50 slides: 211 x 85 x 35 mm
- For 100 slides: 220 x 170 x 33 mm

- ▶ Cork bottom
- ▶ 6 colours to choose from for easy identification and filing
- ▶ Index sheet under the lid

Colour	Box for 25 slides	Box for 50 slides	Box for 100 slides
Blue	037510	037507	037501
Green	037511	-	037502
Red	037512	037508	037503
Yellow	-	-	037504
White	037514	037509	037505
Grey	-	-	037506
Black	-	-	047684
Price/unit	N/A -	N/A -	N/A -
Mixed	-	-	010196*/010197**
Price/ 5 units	-	-	N/A - / N/A -

* foam bottom ** cork bottom

Economic boxes for microscope slides

Polypropylene boxes for 25 or 100 microscope slides with hinged lid and lock.

Colour	Box for 25 slides	Box for 100 slides
Blue	037516	037519
Red	037517	037520
White	037518	037521
Price	N/A -	N/A -



Storage shelves for 15 boxes of slides

► To store 15 boxes of slides

► Transparent acrylic

Cat. No.	Description	Price
037624	Shelf 15 boxes with 50-100 slides	N/A -



Wooden boxes for microscope slides

Beautifully finished wooden boxes for the storage of 26 x 76 mm microscope slides. Maximum slide height: 30 mm.

	Box for 50 slides	Box for 100 slides
L x W x H (mm)	275 x 100 x 40	274 x 185 x 40
Cat. No.	049807	049809
Price	N/A -	N/A -



Boxes for 25 microscope slides

► Polystyrene boxes, not autoclavable

► For 25 slides

► With hinged and fully removable lid

► Freezable down to -80 °C

Colour	Box for 25 slides	Colour	Box for 25 slides
White	049714	Violet	049719
Blue	049715	Orange	049720
Green	049716	Turquoise	049721
Red	049717	Black	049722
Yellow	049718	-	-
Price	N/A -	Price	N/A -



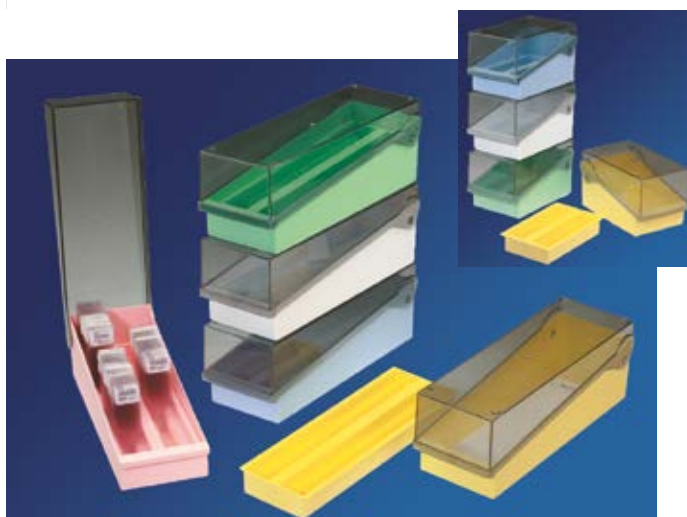
Storage boxes for microscope slides with slip lid



- ▶ Made of high impact polystyrene, highly resistant to impact
- ▶ With numbered slots
- ▶ Stackable
- ▶ Good clearance for easy slide handling
- ▶ Fully detachable lid

Cat. No.	Number of spaces	Dimensions (mm)	Height (mm)	Price
391209	25	98 x 83	38	N/A -
391210	50	230 x 97	35	N/A -
391211	100	230 x 180	35	N/A -

Storage boxes with lid for slides



Storage boxes for up to 400 microscope slides.
L x W x H large model: 82 x 245 x 86 mm.
L x W x H small model: 82 x 140 x 86 mm.

- ▶ Translucent hinged lid
- ▶ Contains a storage tray for 100 slides or 200 slides back to back (large model) or 50 slides or 100 slides back to back (small model)
- ▶ Choice of 5 colours
- ▶ The inner rack can be removed
- ▶ Without its internal rack, the box can contain 400 slides (large model) or 200 slides (small model) on 3 rows
- ▶ Slides arranged vertically for reading through the lid
- ▶ Possibility to read a barcode without removing the slides from the rack

Colour	Slides capacity	Blue	Green	Pink	White	Yellow	Price
Large model	100 or 400	039720	039721	039722	039723	039724	N/A -
Small model	50 or 200	039725	039726	039727	039728	039729	N/A -

Slide boxes for freezing to -80 °C



- ▶ In polycarbonate
- ▶ Stainless steel hinged lid or slip lid
- ▶ Temperature-resistant foam slide holders
- ▶ With digital marking
- ▶ Stackable
- ▶ For 75 x 25 mm slides
- ▶ Autoclavable

Cat. No.	Slides capacity	Lid	L x D x H (mm):	Colour	Price
037994	100	Hinged	208 x 175 x 34	Violet	N/A -
320528	25	Slip	141 x 88 x 35	Blue	N/A -

Tall box for 100 slides 76 x 50 mm



- ▶ For 76 x 50 mm slides
- ▶ Cork bottom box with digital marking
- ▶ For 100 slides
- ▶ Blue
- ▶ Dimensions: 208 x 175 x 60 mm

Cat. No.	Description	Price
037983	ABS storage box for 100 slides 76 x 50	N/A -

Stainless steel moulds



Cat. No.	L x W x H (mm)	Units/box	Price/box
040728	7 x 7 x 5	12	N/A -
040729	15 x 15 x 5	12	N/A -
040730	24 x 24 x 5	12	N/A -
040731	30 x 24 x 5	12	N/A -
040732	37 x 24 x 5	12	N/A -

Disposable moulds with base

- PVC, smooth interior surface
- For inclusion
- For use with cassettes or inclusion rings
- Can be used from -80 °C to +60 °C

Cat. No.	Dimensions (mm)	Units/box	Price/box
040664	7 x 7 x 5	500	N/A -
039910	15 x 15 x 5	1000	N/A -
039950	24 x 24 x 5	1000	N/A -
040262	30 x 24 x 5	1000	N/A -
040665	37 x 24 x 5	500	N/A -



Peel-A-Way® Disposable Moulds

- Made of polyethylene
- Can be used for inclusions in paraffin, epoxy and acrylic resins
- Clean and easy to remove from the mould

Cat.No	Model	Shape	Dimensions L x W (mm)	Depth (mm)	Units/box	Price/box
494300	S22	Square	22 x 22	20	288	N/A -
494301	R30	Rectangular	22 x 30	20	288	N/A -
494302	R40	Rectangular	22 x 40	20	264	N/A -
494304	T8	Truncated	From 22 x 22 to 8 x 8	20	288	N/A -
494305	T12	Truncated	From 22 x 22 to 12 x 12	20	288	N/A -
494303	Assortment	Square / rectangular / truncated	-	20	48*	N/A -

*contains 16 S22 moulds, 8 R30 moulds, 8 R40 moulds, 8 T8 moulds and 8 T12 moulds



Biopsy foam

Biopsy samples are inserted between two foam inserts and placed in tissue capsules with metal or plastic lids.
Made of 30 PPI polyester urethane cellular foam

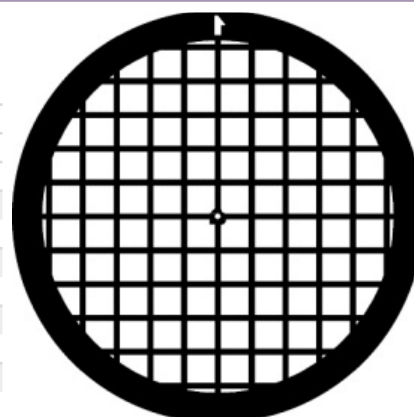
Cat. No.	Use with	Dimensions (mm)	Units/box	Price/box
040666	Cassettes	30.2 x 25.4 x 2	1000	N/A -
040667	Small Capsules	25.4 x 2	1000	N/A -
040668	Large Capsules	34.55 x 2	1000	N/A -



Metal grids for electron microscopy

- Grids for sample deposit
- Grid diameter: 3.05 mm
- In copper, copper/lead, nickel or gold
- Square mesh (other geometries available on request)

Grid model		G50	G75	G100	G150	G175	G200	G250	G300	G400	
Ø wire (µm)		80	55	45	40	37	35	30	25	25	
Ø opening (µm)		420	285	205	125	108	90	70	58	37	
Material	Copper 100 / vial	Cat.No	796000	796001	796002	796003	796004	796005	796006	796007	796008
		Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -
	Copper / lead 100 / vial	Cat.No	796009	796010	796011	796012	796013	796014	796015	796016	796017
		Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -
	Nickel 100 / vial	Cat.No	796018	796019	796020	796021	796022	796023	796024	796025	796026
		Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -
	Gold 50 / vial	Cat.No	796027	796028	796029	796030	796031	796032	796033	796034	796035
		Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -



Accessories

Cat. No.	Description	Price
796036	Storage box for 50 grids	N/A -
796037	Storage box for 100 grids	N/A -



Histosette 1, 2 & Unisette inclusion cassettes



Histosette 1



Histosette 2



Unisette

► Histosette 1

- Made of acetal polymer
- The anterior writing area is inclined at 45°
- Lid attached to the bottom of the box
- Flow slots maximise circulation, liquid exchange and ensure efficient drainage
- Biopsy models have square openings of 1 mm square

► Histosette 2

- Made of acetal polymer
- Models M 492 and M 493: with safety lock lid, mounted on the cassette
- Models M 486 and M 485: lids and cassettes supplied separately (sold per 1000, two dispenser boxes of 500 cassettes and one dispenser box of 1000 lids)

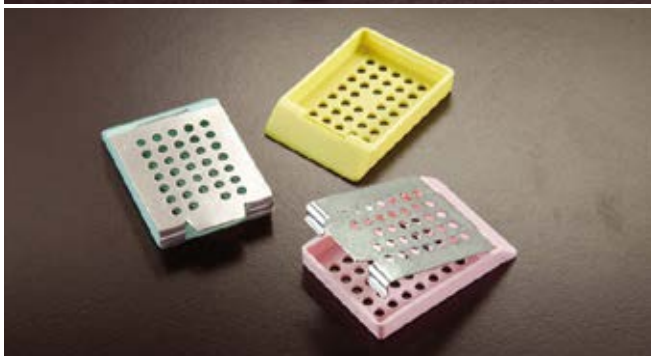
► Unisette

- Made of acetal polymer
- The lid can be easily removed and the hinges hold it securely in place
- The anterior writing area has a 45° angle
- The lid lift tab is located sideways instead of centrally
- Available in 11 non-cytotoxic, non-metallic colours and 3 fluorescent colours

Colour	Histosette 1 Standard M498	Histosette 1 Biopsy M499	Histosette 2 Standard M492	Histosette 2 Biopsy M493	Histosette 2 Standard M485	Histosette 2 Biopsy M486	Unisette Standard	Unisette Biopsy
White	040503	040517	039751	039762	039773	039784	040537	040551
Pink	040504	040518	039752	039763	039774	039785	040538	040552
Green	040505	040519	039753	039764	039775	039786	040539	040553
Yellow	040506	040520	039754	039765	039776	039787	040540	040554
Blue	040507	040521	039755	039766	039777	039788	040541	040555
Peach	040508	040522	039756	039767	039778	039789	040542	040556
Beige	040509	040523	039757	039768	039779	039790	040543	040557
Grey	040510	040524	039758	039769	039780	039791	040544	040558
Purple	040511	040525	039759	039770	039781	039792	040545	040559
Orange	040512	040526	039760	039771	039782	039793	040546	040560
Water green	040513	040527	039761	039772	039783	039794	040547	040561
Units/box	500	500	500	500	1000	1000	500	500
Price/box	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

ANALYSIS AND MEASUREMENTS

Inclusion cassettes without lids



Tissue sample cassettes for processing, inclusion and sectioning procedures.

- Of acetal polymer (except 040277 of polypropylene)
- Sloping surface for sample identification in all inclusion stages

Natural	White	Pink	Green	Yellow	Blue	Price 500 units
040277	040278	040279	040280	040281	040282	N/A -
Peach	Beige	Grey	Purple	Orange	Water green	Price 500 units
040283	040284	040285	040286	040287	040288	N/A -

Accessory

Reusable metal lid.

Cat. No.	Description	Units/box	Price/box
040289	Metal lid for cassette	25	N/A -

Macrosette cassette



These disposable plastic cassettes are designed to be used with larger tissue specimens.

- Made of acetal polymer
- 12 mm high

Cat. No.	Description	Units/box	Price/box
040663	White macroset	250	N/A -

Capsules for tissues



Capsules for tissue samples.

- Lids with frosted writing surface for sample identification
- Made of polypropylene

Cat. No.	Ø (mm)	Height (mm)	Units/box	Price/box
040270	28	5	1000	N/A -
040271	38	10	1000	N/A -

Inclusion Rings

For gripping and identifying paraffin blocks.

- In polystyrene
- With marking surfaces for identification
- To be used with disposable embedding moulds (add a little paraffin in the ring to consolidate the whole)

White	Pink	Green	Yellow	Blue	Price/250 units
040272	040273	040274	040275	040276	N/A -



Biosigma inclusion cassettes

- With or without lid
- Made of P.O.M. (polyoxymethylene)
- With detachable lid
- Blue histology sponge size 3 x 2.5 cm available as accessory

Model	Inclusion cassette	Biopsy cassette
White	390561	390567
Yellow	390562	390568
Pink	390563	390569
Green	390564	390570
Orange	390565	390571
Light blue	390566	390572
Price/ 2000 units	N/A -	N/A -
Without lid	390573	-
Price/ 2000 units	N/A -	-



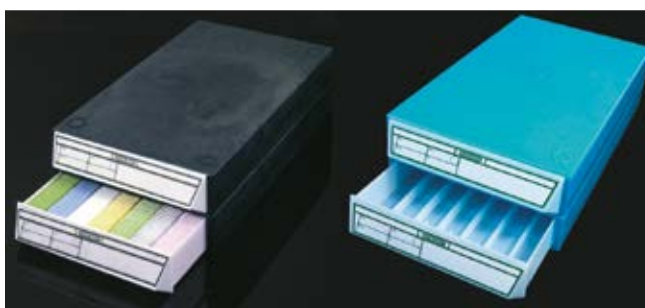
Accessory

Cat. No.	Description	Price
390574	Histology sponge, blue, 3 x 2.5 cm	N/A -

Histology cassette drawers

- Storage drawers for histology cassettes
- for 400 cassettes
- Made of high impact polystyrene (HIP)
- Stackable
- Two colours

Cat. No.	Description	Units/box	Price/box
064113	Marbled green drawers with labels	2	N/A -
064114	Blue drawers with labels	2	N/A -



CytoSep™ Cytology Funnels

Single funnels

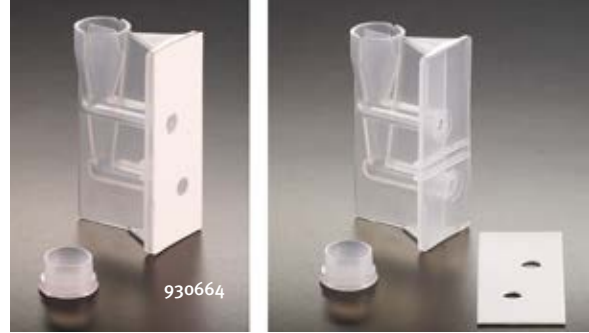


For SHANDON CYTOSEP cytology centrifuges.

- Used to deposit a thin layer of cells in a clearly defined area of a microscope slide
- Filter paper specially adapted to cytosept, allows the absorption of any excess liquid
- Funnels are supplied with a cap to protect the samples
- For 0.5 ml samples, use single CytoSep™ with white filter paper and cap; 6 mm (28 mm²) deposit - can be used with metal clips 930779
- For samples up to 0.4 ml such as spinal fluid, the simple CytoSep™ with brown filter paper and cap should be used to allow slower absorption of the fluid
- All components are available individually

Cat.No	Description	Pack. unit	Units/box	Price/box
930515	Single funnel with white filter and cap	50	500	N/A -
930663	Single funnel with white filter and cap, individually packed	100	500	N/A -
930774	Single funnel with brown filter and cap	50	500	N/A -
930775	Single funnel only	-	500	N/A -
930776	Cap only	50	500	N/A -
930596	White filter paper	-	200	N/A -
930784	Brown filter paper	-	200	N/A -

Double funnels



For 2 samples simultaneously on one slide.

- Ideal for immunohistochemistry
- For samples up to 0.5 ml; 6 mm deposit (28 mm²)
- The filter is pre-attached
- Delivered with cap
- Can be used with metal clips 930779
- All components are available individually

Cat.No	Description	Pack. unit	Units/box	Price/box
930664	Double funnel with white filter and cap	50	500	N/A -
930665	Double funnel with white filter and cap, individually packed	100	500	N/A -
930777	Double funnel only	-	500	N/A -
930776	Cap only	50	500	N/A -
930778	White filter paper	-	200	N/A -

Metal clip for CytoSep™

Keeps the slide close to the CytoSep™ during centrifugation in the CytoSpin™

- Autoclavable

Cat.No	Description	Units/box	Price/box
930779	Metal clip	6	N/A -



CytoSep™ Single or double funnels made entirely of plastic



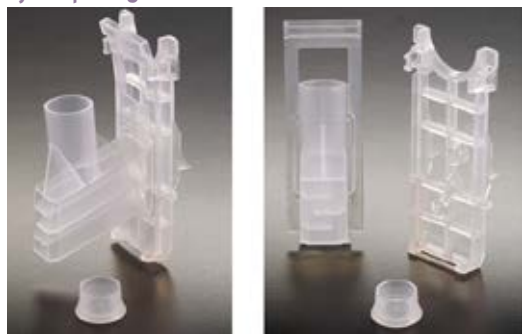
- Single use
- Reduce the risk of exposure to pathogens and cross-contamination
- Do not require the use of metal clips
- For 0.5 ml samples, use the single Cytosept with white filter paper and cap; 6 mm deposit (28 mm²)
- Double funnels allow the deposition of 2 samples simultaneously on one slide
- Supplied with filter paper
- All components are available individually

Cat. No.	Description	Pack. unit	Units/box	Price/box
930543	Single funnel with white filter and cap	40	480	N/A -
930780	Single funnel with brown filter and cap	40	480	N/A -
930544	Double funnel with white filter and cap	40	480	N/A -
930781	Single funnel only	50	500	N/A -
930782	Double funnel only	50	500	N/A -
930776	Cap only	50	500	N/A -
930783	Base only	50	500	N/A -
930596	White filter paper for single funnel	-	200	N/A -
930784	Brown filter paper for single funnel	-	200	N/A -
930778	White filter paper for double funnel	-	200	N/A -



CytoSep™ Cytology Funnels (continued)

CytoSep™ Mega funnel



For the preparation of high volume samples.

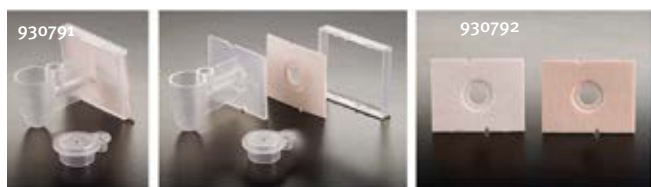
- Does not require the use of metal clips
- Large deposition area: 22 x 14.75 mm (325 mm²); 12 times the volume of the standard CytoSep™ (6 ml)
- Strategically placed baffles prevent cell sedimentation, resulting in uniform cell deposition and excellent slide preparation quality
- Reduce the risk of exposure to pathogens and cross-contamination

Cat. No.	Description	Pack. unit	Units/box	Price/box
930785	Cytosep Mega funnel with cap	40	480	N/A -
930786	White filter paper	-	200	N/A -

CytoSep™ for Unitech (Wescor) Cytopro Centrifuge

➤ Single funnels

- The individual elements fit together quickly and are easily aligned
- Compression ring for better flow control and results
- Samples are loaded directly through the cap
- The caps provide additional safety for the operator
- Large, centred cell deposition area for easier and more sensitive screening



Cat. No.	Description	Pack. unit	Units/box	Price/box
930791	Single chamber with white filter paper	24	48	N/A -
930792	White filter paper	-	100	N/A -

➤ Double funnels

- Double chamber with close and easy to locate deposit areas
- 7 mm spotlight provides a 37% larger area of cell collection



Cat. No.	Description	Pack. unit	Units/box	Price/box
930793	Double chamber with white filter paper	24	48	N/A -
930794	White filter paper	-	100	N/A -

CytoSep™ funnels for Sakura Cyto-Tek centrifuge



Cat. No.	Description	Pack. unit	Units/box	Price/box
930787	Chamber 1 ml	50	200	N/A -
930788	Support	50	200	N/A -
930789	Cap	50	200	N/A -
930790	White filter paper	-	200	N/A -

CytoSep™ funnels for Cytofuge StatSpin centrifuge



- For gentle concentration of cells in a 7 mm diameter area on a slide
- Supernatant absorbed by the filter
- For samples from 50 to 400 µl
- High quality single cell coating
- Filter sold separately

Cat. No.	Description	Units/box	Price/box
930795	Concentrator	48	N/A -
930796	Filter	200	N/A -

CytoSep™ funnels for Hettich Cyto-System



- Multiple funnel options: 2, 3 or 4 per slide
- 4 sizes available: 1, 2, 4 or 8 ml
- The 1 ml chamber is intended for the small volume with low cell concentration
- 2 and 4 ml chambers: suitable for cell-rich samples
- 8 ml chamber: recommended for very large samples (urine)

Cat. No.	Description	Units/box	Price/box
930797	Funnel chamber 1 ml	50	N/A -
930798	Funnel chamber 2 ml	50	N/A -
930545	Funnel chamber 4 ml	50	N/A -
930799	Funnel chamber 8 ml	50	N/A -
930800	Chamber filter 1.2 and 4 ml	200	N/A -
930801	Chamber filter 8 ml	200	N/A -

CryoSette™

For the preservation of frozen tissue.



930767

- CryoSette™ with acetal base and HDPE screw cap
- Maintains tissue integrity
- Wide opening
- Chamber dimensions Ø. ext. x Ø. int. x H (mm): 21 x 18 x 10.5
- Total dim. Ø. ext. x Ø. int. x H (mm): 24 x 38 x 11
- Can be stored in a freezer at -86 °C or in the gas phase of liquid nitrogen at -196 °C

- Possibility to add a 2D insert (040957) for efficient traceability
- 5 colour-coded inserts to choose from
- Option to add a cardboard (930766) or plastic (930765) identification label under the base of the CryoSette™
- Tested at 95 KPa
- Choice between 2 versions of storage boxes (930763 or 930764)

930764



930763

➤ Storage box for 21 CryoSette™, in polypropylene

- Thick walls prevent deformation due to temperature changes
- SBS format, robotic compatible
- Marking on the sides for orientation of the box

- Lock for optimal closure
- Storage temperature: -196 °C to +121 °C
- Can only be stored in the gas phase of liquid nitrogen
- Dimensions: 127.76 x 85.48 x 41.6 mm

➤ Storage box for 40 CryoSette™, in polypropylene

- Dimensions: 133 x 133 x 52 mm
- Storage temperature: from -196 °C to +121 °C

- Autoclavable at 120 °C 1 bar for 20 min.
- Possibility to write on the lid

930766



Cat. No.	Description	Units/box	Price/box
930767	CryoSette™ orange	250	N/A -
930763	Box for storage of 21 CryoSette™	10	N/A -
930764	Box for storage of 40 CryoSette™	10	N/A -
930768	Box divider kit for 930764	6	N/A -
930766	Identification label for CryoSette™, box	100	N/A -
930765	Identification label for CryoSette™, plastic	100	N/A -
040957	Insert 53 mm 2D Datamatrix black	500	N/A -
040958	Insert 53 mm blue	500	N/A -
040959	Insert 53 mm green	500	N/A -
040960	Insert 53 mm lilac	500	N/A -
040961	Insert 53 mm red	500	N/A -
040962	Insert 53 mm yellow	500	N/A -

OPTISCAN₁₀ slide scanner



- Convert optical image into digital image
- For 24 x 75 mm slides
- Normal resolution: 5 000 dpi
high resolution: 10 000 dpi
- Scanning time: 1 min 30 s to 2 min 10 s
- LED lighting
- Easily usable digital image
- System compatibility Windows XP service pack 2 / Vista / win 7 / win 8 / win 10 / 32-64 bit / USB 2.0
- Supplied with 1.5 m USB cable, power supply, CD-ROM

Cat. No.	Description	Price
671181	Digital slide scanner 10 000 dpi	N/A -

Histology plate



- Capacity: 50 slides
- Black anodised aluminium work surface with high contrast for a better view of the sample
- Easy to replace heating element
- With removable bar for flat, straddle or 1-sided positioning on the bar

Temperature	Amb. + 5 °C to 100 °C
Capacity slides 76 x 26 mm	50
L x D x H (mm)	390 x 180 x 90
Power (W)	150
Cat. No.	078554
Price	N/A -

Histological bath

Histological bath for paraffin inclusions "Termofin".

- For adjustable temperatures from 40 °C to 80 °C
- Stability ± 1 °C
- Teflon coated
- Inner tank, top and lid coated with PTFE, indelibly matt black
- With hole for temperature reading thermometer
- Control panel: main switch, temperature control thermostat, synchronised with a signal lamp
- Applications: for melting and storing paraffin in a liquid state which allows the visualisation of tissue sections

Capacity	4 litres
ø x useful height	250 x 100 mm
ø x ext. height	340 x 140 mm
Consumption	430 W
Weight	2.3 kg



Cat. No.	Description	Price
068649	Histological bath for paraffin embedding	N/A -

Storage drawers

- In polystyrene
- For the storage of 165 insert moulds or 250 cassettes per drawer
- Impact resistant
- Identification labels included



Cat. No.	Description	Price
040669	6 storage drawers only	N/A -

Paraplast-Plus Paraffin

For the inclusion of samples.

- Supplied in flake form
- Melting temperature: 56 °C
- 1 kg bag



Cat. No.	Description	Price
140320	Paraplast Plus 1 kg	N/A -

Find our dyes and bleaches on pages 594 and 595



Paraffin dispenser

- Epoxy coated metal outer shell
- Internal cuvette and lid made of aluminium coated in indelible black PTFE
- Stopcock with integrated heating

Capacity (l)	4
ø x useful H (cm)	20 x 15
ø x ext. H (cm)	28 x 30
Power consumption (W)	400
Weight (kg)	5
Cat. No.	068646
Price	N/A -



For ambient adjustable temperatures + 5 °C to 100 °C.

Stability ± 1.5 °C. Control panel:

- main switch, with indicator light;
- heating operation indicator lamp;
- temperature control thermostat;
- temperature control of the drain valve.

Paraffin dispenser 5 l



- 5 litre paraffin capacity
- LED ignition indicator
- Backlit LCD display
- Possibility to program the start and end time of the heating cycle

Capacity	5 l Reservoir
Programmable parameters	Start and end time
Dimensions (mm)	410 x 440 x 360
Power supply	220 V, 50 Hz
Cat. No.	942904
Price	N/A -

Paraffin dispenser



Compact device for dispensing molten paraffin on demand directly from its tap.
Digital display for temperature setting and display.

- ▶ **Capacity: 7.5 l**
- ▶ **Ambient temperature setting +5 °C to 70 °C**
- ▶ **Stainless steel cuvette with antimicrobial coating**
- ▶ **Heated tap to prevent wax clogs**
- ▶ **Compact model**

Temperature (°C)	Amb +5 °C to 70 °C
Display resolution (°C)	1
Accuracy	+/- 1 °C
Cuvette capacity (l)	7.5
Weight (kg)	7
Dimensions W x D x H (mm)	181 x 500 x 455
Power consumption (W)	480
Power supply	230 V, 50-60 Hz
Cat. No.	002125
Price	N/A -

Manual rotation microtome



- ▶ **For making tissue sections in paraffin**
- ▶ **Ergonomic, easy-to-handle handwheel with mechanism lock**
- ▶ **Cutting surface 50 x 45 mm**
- ▶ **Sample clamp and universal clamp for cassette easily interchangeable and swivelling**
- ▶ **Advanced macro system**
- ▶ **Supplied with 2 slide holders for high and low profile disposable slides, with tiltable finger guard**

Cutting thickness (µm)	0.5 - 60
Cutting thickness adjustment	From 0.5-2 µm in 0.5 µm intervals From 2-10 µm in 1 µm intervals From 10-20 µm in 2 µm intervals From 20-60 µm in 5 µm intervals
Angle of slide orientation	0 - 12 °
Horizontal displacement of the sample (mm)	35
Vertical displacement of the sample (mm)	46
Sample Orientation	8° (x-y eyes); 360° gyratory
Dimensions L x D x H (mm)	300 x 570 x 270
Weight (kg)	34
Power supply	220 V - 50 Hz
Cat. No.	942836
Price	N/A -

Sterile polystyrene Pasteur pipettes



- ▶ **In transparent polystyrene, length 150 mm and 230 mm**
- ▶ **Advantages over glass pipettes: safer, more economical, gamma sterility guaranteed**
- ▶ **In individual packaging or 25 units**

Length (mm)	Ind. sterile packaging	Packed per 25, sterile
152	978357	978358
229	978359	978360
Units/bag	50	25
Units/box	200	500
Price/box	N/A -	N/A -

VOLAC Pasteur Pipettes

Low capillary diameter: 1.5 mm. Soda-lime glass.

Cat. No.	Total length (mm)	Sterile	Cottoned	Thick wall	Units/box	Price/box
320244	150	No	No	No	1000	N/A -
320246	150	No	Yes	No	1000	N/A -
320247	150	Yes	Yes	No	250	N/A -
320248	230	No	No	No	1000	N/A -
320252	230	No	Yes	No	1000	N/A -
320253	230	Yes	Yes	No	250	N/A -



Glass Pasteur pipettes, non-cottoned

- Soda-lime glass
- Complies with the USP type III
- Non-cottoned
- Open tips

Cat. No.	Length (mm)	Tip int. Ø (mm)	Capacity (ml)	Units/box	Price/box
251563	150	1.1	2	1000	N/A -
251564	230	1.1	2	1000	N/A -

Teats for pasteur pipettes

Cat. No.	Material	Units/box	Price/box
251565	Silicone	100	N/A -
251566	Natural rubber, latex	100	N/A -
012780	Versilic Silicone	25	N/A -



Pasteur Plastic pipettes

- Made of medical grade polystyrene
- Sterilised by gamma rays

Cat. No.	Length (mm)	Units/bag	Units/box	Price/box
141399	145	50	200	N/A -
841400	230	50	200	N/A -



Pasteur Polypropylene Pipettes

- Made of polypropylene
- Safer and less brittle than glass pipettes
- Good chemical resistance
- In individual sterile, bulk sterile or bulk non-sterile packaging
- Autoclavable

Length (mm)	Individual sterile pack.	Sterile bulk	Non-sterile bulk
152	978494	978368	978369
229	978370	978371	978372
Units/bag	50	25	100
Units/box	200	500	500
Price/box	N/A -	N/A -	N/A -



Pasteur pipettes in soda-lime glass



Cat. No.	Total length (mm)	Ø x W (mm) body	Ø x l (mm) capillary	Cottoned	Closed	Aseptic	Pack unit.	Units/box	Price/pack. unit*
020419	150	6.5 x 100	1.5 x 50	No	No	No	4 x 250	1000	N/A -
020420	230	6.5 x 100	1.5 x 130	No	No	No	4 x 250	1000	N/A -
711175	350	7 x 120	1.5 x 175	Yes	Yes	Yes	4 x 200	800	N/A -

* Pasteur pipettes are delivered in single packs or in standard box.

High precision Pasteur pipettes

- > Soda-lime glass, with constriction
- > Low capillary Ø: 1.3 mm



* If sterile, sterilised with ethylene oxide.

Cat. No.	Total length (mm)	Cottoned	Closed	Sterile*	Pack unit.	Units/box	Price/box
495000	150	No	No	No	250	1000	N/A -
495001	230	No	No	No	250	1000	N/A -
495002	270	No	No	No	250	1000	N/A -
495003	300	No	No	No	250	1000	N/A -
495005	150	Yes	No	No	250	1000	N/A -
495006	230	Yes	No	No	250	1000	N/A -
495007	150	No	Yes	No	250	1000	N/A -
495008	230	No	Yes	No	250	1000	N/A -
495009	150	Yes	Yes	No	250	1000	N/A -
495011	150	Yes	Yes	Yes	250	1000	N/A -
495012	230	Yes	Yes	Yes	250	1000	N/A -

Non-sterile Pasteur pipettes in soda-lime glass



Cat. No.	Total length (mm)	Cottoned	Closed	Units/box	Price/box
065421	150	No	No	250	N/A -
065422	230	No	No	250	N/A -
065468	150	Yes	No	250	N/A -
065469	230	Yes	No	250	N/A -
065470	230	No	Yes	250	N/A -
065471	230	Yes	Yes	250	N/A -
065472	270	No	No	250	N/A -
065473	270	Yes	No	250	N/A -

Wheaton® LDPE Transfer Pipettes



Cat.No	Total Vol. (ml)	Bulb vol. (ml)	Length (mm)	Drop vol. (µl)	Graduation	Sterile	Units/bag	Units/box	Price/box
055764	5	3.5	150	34.5	Yes up to 1 ml in 0.25 ml increments	No	500	3000	N/A -
055781	5	3.5	150	34.5	Yes up to 1 ml in 0.25 ml increments	Yes	1	500	N/A -
055791	5	3.5	150	34.5	Yes up to 1 ml in 0.25 ml increments	Yes	10	1500	N/A -
055792	5	3.5	150	34.5	Yes up to 1 ml in 0.25 ml increments	Yes	20	1500	N/A -
055765	7	3.5	160	47.6	Yes up to 3 ml in 0.50 ml increments	No	500	3000	N/A -
055780	7	3.5	160	47.6	Yes up to 3 ml in 0.50 ml increments	Yes	1	500	N/A -
055793	7	3.5	160	47.6	Yes up to 3 ml in 0.50 ml increments	Yes	10	1500	N/A -
055794	7	3.5	160	47.6	Yes up to 3 ml in 0.50 ml increments	Yes	20	1500	N/A -
055787	1.5	1	103	20	No	No	500	3000	N/A -
055789	1.5	1	103	20	No	Yes	1	500	N/A -
055788	1.5	1	103	20	No	Yes	10	1500	N/A -
055790	1.5	1	103	20	No	Yes	20	1500	N/A -
054996	23	10	300	45.4	No	No	100	600	N/A -

TRANSFER PIPETTES

Biosigma Transfer pipettes

- Made of polyethylene
- Sterile or not - peelable packaging for sterile models
- Economic



Graduated pipettes

Model	Rod Vol.1 ml graduated	Rod Vol. 3 ml graduated
Bulb vol. (ml)	4.5	4
Length (mm)	145	155
Graduation (ml)	0.25	0.5
In bulk	390509	390512
Units/bag	500	500
Price/bag	N/A -	N/A -
Steriles/5	390510	390513
Units/box	1000	1000
Price/box	N/A -	N/A -
Sterile/1	390511	390514
Units/box	1000	1000
Price/box	N/A -	N/A -

Other transfer pipettes - Non-sterile.

Cat.No.	Description	Units/box	Price/box
390515	Transfer pipette 1.5 ml long tip	2400	N/A -
390521	Transfer pipette 10 ml	1500	N/A -
390517	Transfer pipette triple bulb for M.T. kit	3000	N/A -

Transfer pipettes in LDPE

- In LDPE
- Operating temperature from -196 °C to 90 °C

Non-sterile

Cat. No.	Type	Volume bulb. (ml)	Length (mm)	Units/box	Price/box
380573	4 ml, narrow stem, short	3	85	500	N/A -
380574	6.5 ml, narrow stem	3.2	155	500	N/A -
380575	Exact volume 0.05 ml	0.05	59	500	N/A -
380576	Exact volume 0.075 ml	0.075	75	500	N/A -
380577	Exact volume 0.1 ml	0.1	83	500	N/A -
380578	Exact volume ~0.14 ml	0.2	115	500	N/A -
380579	Exact volume 0.25 ml	0.25	104	500	N/A -

Sterile

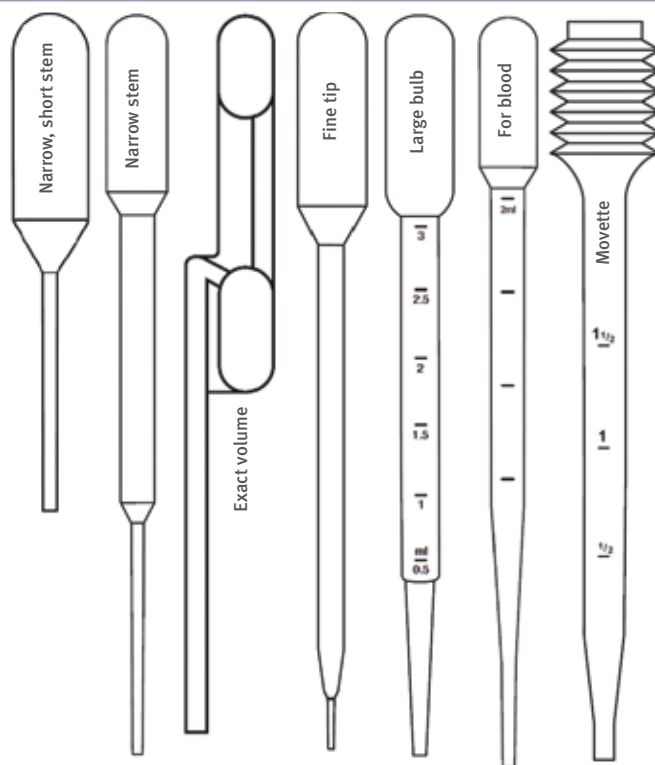
Cat. No.	Type	Volume bulb. (ml)	Long. (mm)	Pack unit.	Units/box	Price/box
380580	5.8 ml, fine tip	3.4	147	20	400	N/A -

Non-sterile graduated

Cat.No	Type	Bulb Vol. (ml)	Long. (mm)	Graduations / increments (ml)	Units/box	Price/box
380581	7.5 ml, large bulb	3.5	148	3.0/0.5	500	N/A -
380582	5 ml, large bulb	3.4	145	1.0/0.25	500	N/A -
380583	5 ml for blood	2	155	2.0/0.5	500	N/A -
380584	Movette 7 ml	4.8	140	1.5/0.5	100	N/A -
380585	Movette 15 ml	5.8	192	5.0/1.0	100	N/A -
380586	5 ml	1.8	150	2.25/0.25	500	N/A -

Sterile graduated

Cat.No	Type	Volume bulb. (ml)	Long. (mm)	Graduations (ml)/ increments (ml)	Pack unit.	Units/box	Price/box
380587	7 ml, large bulb	3.2	155	3/0.5	10	400	N/A -
380588	5 ml, large bulb, single pack	3.4	150	1.0/0.25	100	400	N/A -
380589	5ml, large bulb	3.4	145	1.0/0.25	10	400	N/A -



Long Transfer pipettes



- Total volume: 6 ml
- Total length: 227 mm
- RodØ: 4.4 mm
- Bulb Volume: 3.2 ml
- Drop volume: 40 µl
- Graduated up to 1.5 ml with a 0.5 ml interval

Cat. No.	Description	Units/box	Price/box
042865	Transfer pipettes	400	N/A -
042866	Sterile transfer pipettes, individually packed	500	N/A -

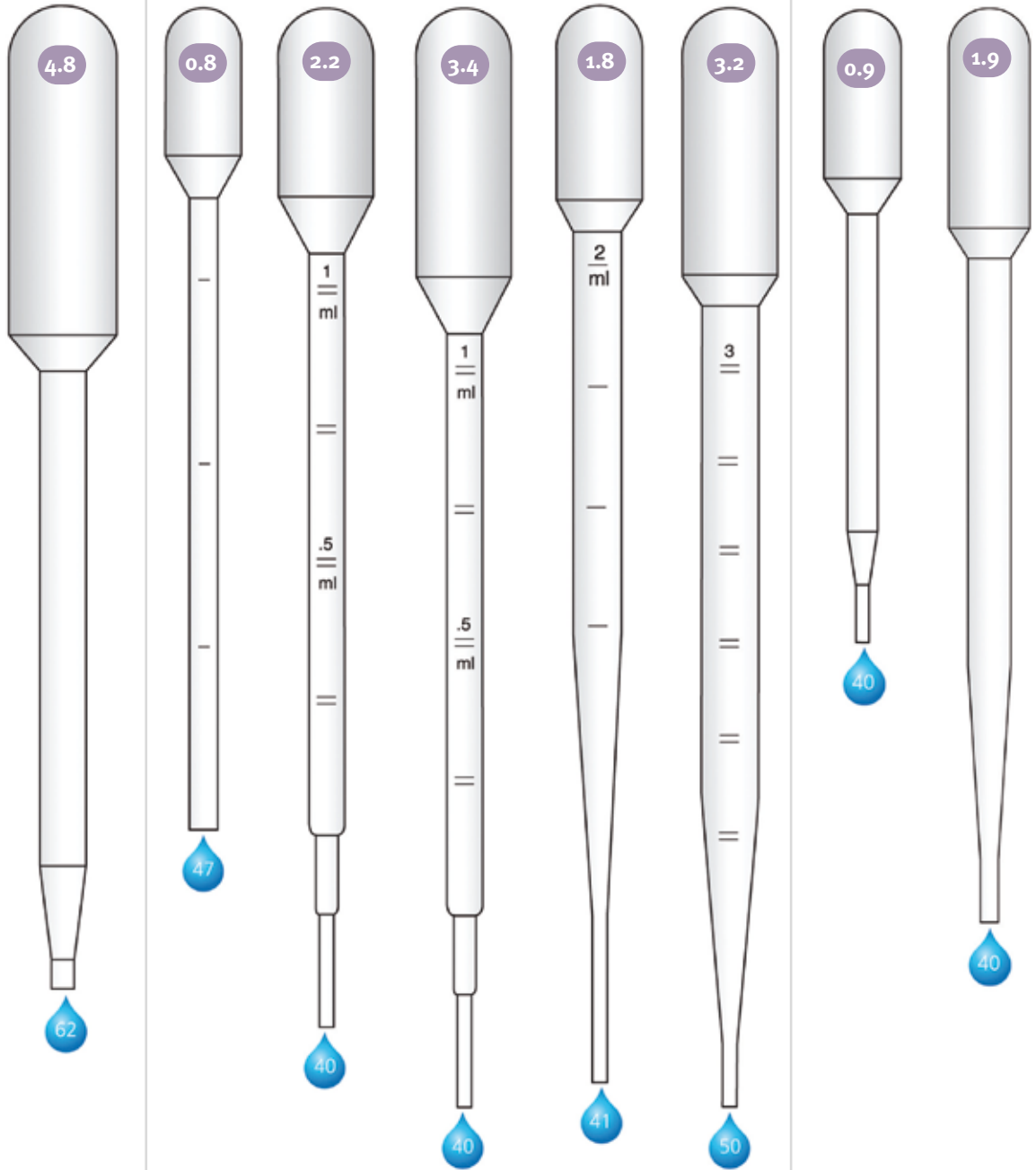
TRANSFER PIPETTES


Transfer pipettes

- > 25 different models, suitable for the vast majority of liquid handling in the laboratory
- > Single use
- > Bulb integrated in the pipette
- > 1 non sterile version and 2 sterile versions
- > Sterile pipettes: individual (paper/plastic) or multiple packaging
- > Polyethylene, unbreakable, non-toxic, low protein affinity

Select your transfer pipette according to the volume of the bulb required.

	WIDE OPENING			GRADUATED			STANDARD	
Bulb Volume (ml)	4.8	0.8	2.2	3.4	1.8	3.2	0.9	1.9
Length (mm)	137	116	140	155	152	155	87	129
Drop per ml	16	21	25	25	24	20	25	25
Bulb Volume + stem (ml)	9.3	1.5	3.9	5.8	4.8	7.5	1.7	4
1st / last grad. (ml)	-	0.1 / 0.3	0.25 / 1	0.25 / 1	0.5 / 2	0.5 / 3	-	-



 Drop volume (µl)

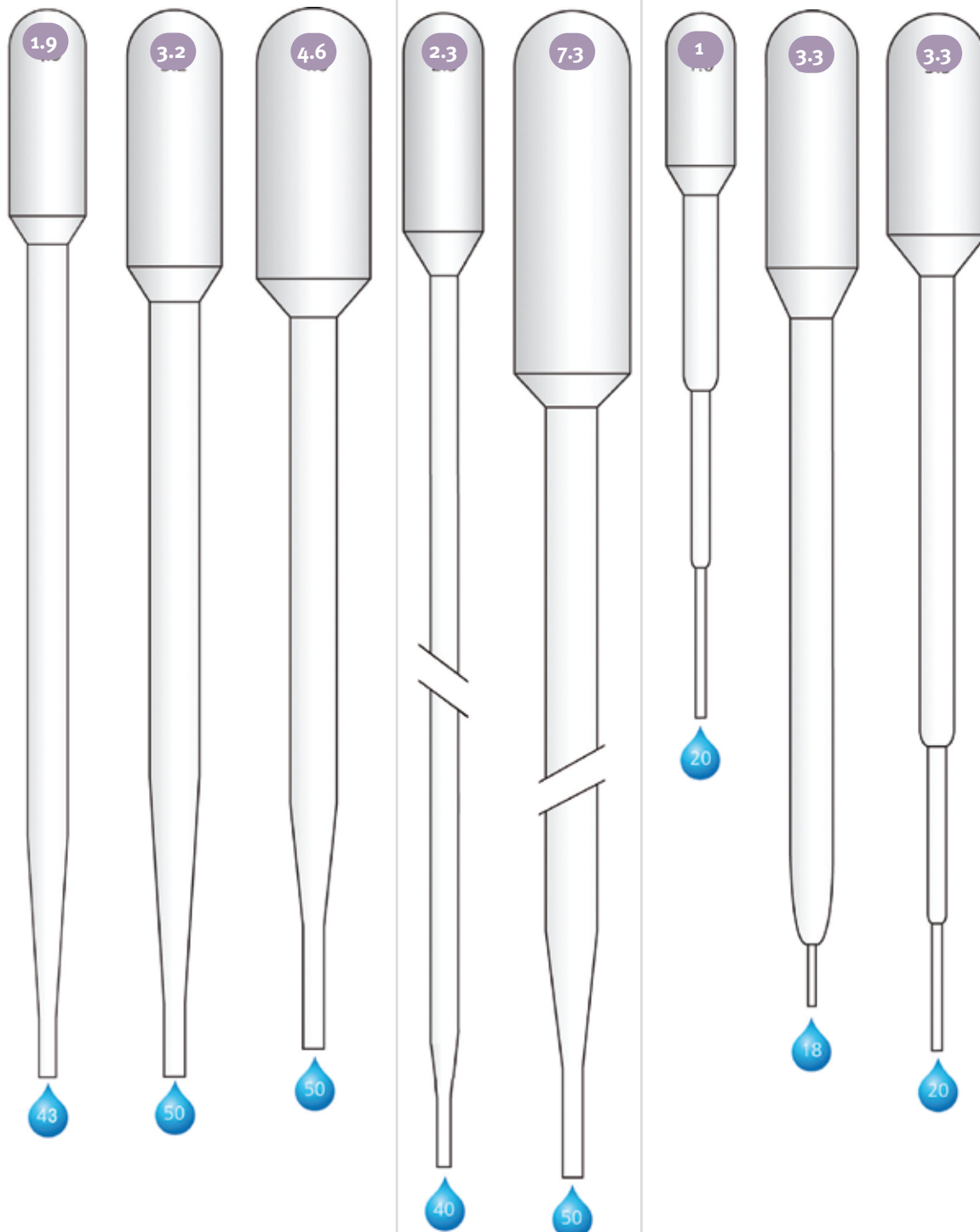
Non-sterile	043337	043282	043212	043222	043274	043225	043273	043335
Box of	250	500	500	500	500	500	500	400
Price/ box	41.79 -	42.03 -	42.27 -	41.73 -	42.12 -	41.83 -	42.80 -	41.90 -
Sterile/1	043338	043282S	043212S	043222S	043274S	043225S	043273S	043335S
Box of	250	500	500	500	500	500	500	400
Price/ box	42 -	71.94 -	84.42 -	84.39 -	84.30 -	93.32 -	80.09 -	80.30 -
Sterile/10	043339B*	043282M	043212M	043222M	043274M	043225M	043273M	043335M
Box of	400	500	500	500	500	500	500	400
Price/ box	37.68 -	92.60 -	98.60 -	126 -	70.40 -	79.40 -	63.80 -	107.80 -

TRANSFER PIPETTES

Transfer pipettes

Select your transfer pipette according to the volume of the bulb required.

	STANDARD			EXTRA LONG		FINE TIP		
Bulb Volume (ml)	1.9	3.2	4.6	2.3	7.3	1	3.3	3.3
Length (mm)	154	156	157	225	300	104	147	153
Drop per ml	23	20	20	25	20	50	55	50
Bulb Volume + stem (ml)	5	7.7	8	6	23	1.5	5.8	5
Graduation (ml)	-	-	-	-	-	-	-	-

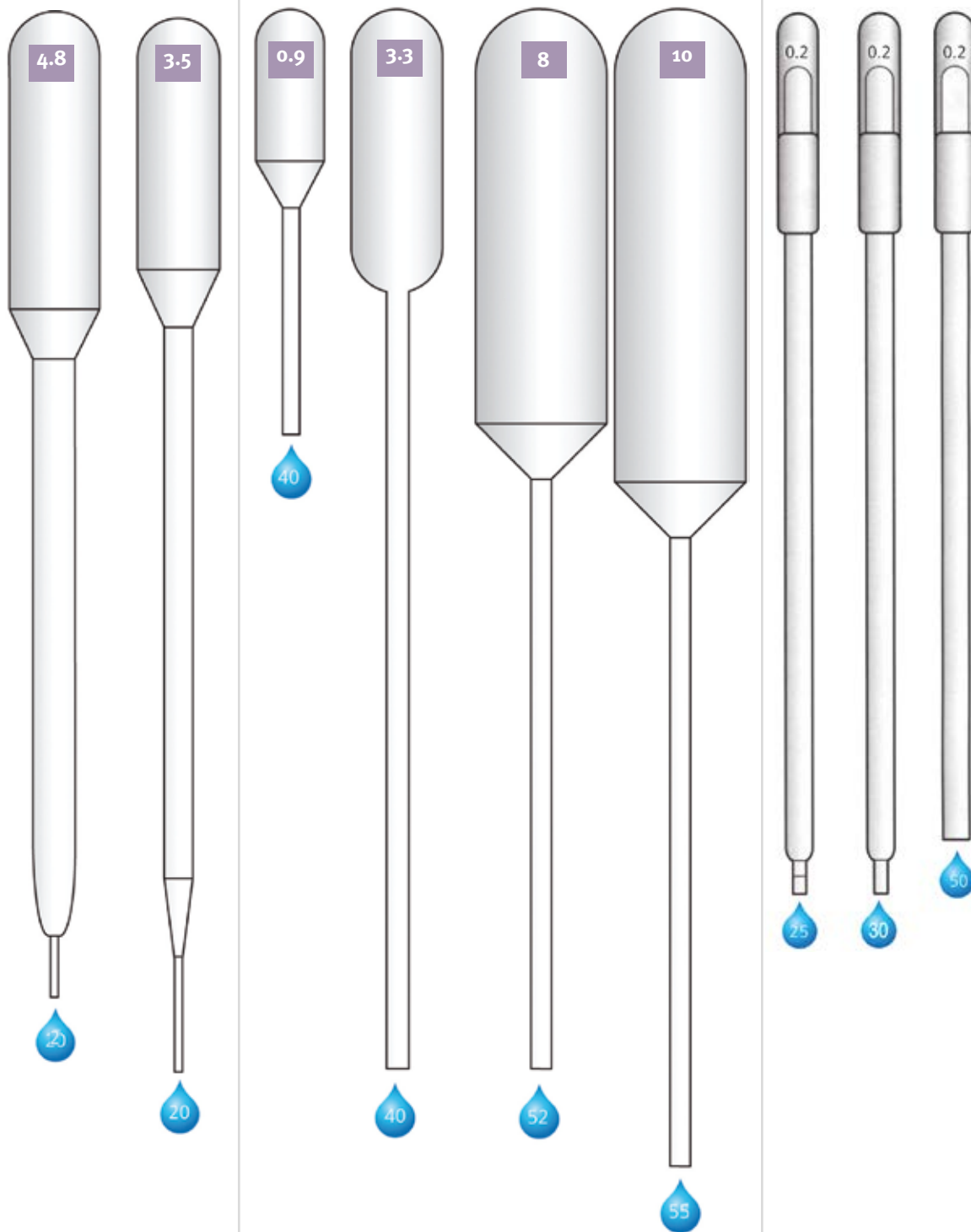


Non-sterile	043336	043202	043204	043262	043263	043231	043232	043233
Box of	500	500	400	400	100	400	500	250
Price/ box	43.34 -	43.34 -	35.52 -	35.52 -	34.05 -	38.95 -	42 -	28 -
Sterile/1	043336S	043202S	043204S	043262S	043263S	043231S	043232S	043233S
Box of	500	500	400	400	100	400	400	400
Price/ box	82.47 -	110 -	82.35 -	69.30 -	81.16 -	90.19 -	108.79 -	96.51 -
Sterile/10	043336M	043202M	043204M	043262M	043263M	043231M	043232M	043233M
Box of	500	500	400	400	100	400	500	500
Price/ box	98 -	69.10 -	141 -	71.30 -	75.60 -	108 -	110 -	128 -

TRANSFER PIPETTES

Select your transfer pipette according to the volume of the bulb required.

	FINE TIP		STRAIGHT ROD				SPECIAL		
Bulb Volume (ml)	4.8	3.5	0.9	3.3	8	10	0.2	0.2	0.2
Length (mm)	147	157	64	155	155	171	131	131	124
Drop per ml	45	50	25	25	19	18	-	-	-
Bulb Volume + stem (ml)	8.7	5.8	1.2	4.6	15	-	1	1	0.8
Graduation (ml)	-	-	-	-	-	-	-	-	-



Non-sterile	-	043235	043241	043251	043252	030126	043292	043293	043295
Box of	-	500	500	500	250	200	500	500	500
Price/ box	-	51.10 -	43.08 -	43.12 -	29.33 -	28.10 -	56.95 -	56.99 -	57.06 -
Sterile/1	043234S	043235S	043241S	043251S	043252BS	-	-	-	-
Box of	400	400	500	500	250	-	-	-	-
Price/ box	99.84 -	94.82 -	126.80 -	86.36 -	57.35 -	-	-	-	-
Sterile/10	043234M	043235M	043241M	043251M	043252M	-	-	-	-
Box of	400	500	500	500	250	-	-	-	-
Price/ box	126 -	104 -	69.10 -	101 -	86.10 -	-	-	-	-

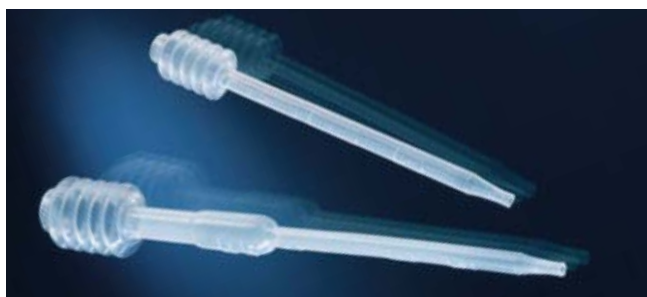
ANALYSIS AND MEASUREMENTS

Movettes Pipettes

- Made of polyethylene
- 3 sizes: 1.5, 4 and 5 ml
- For semi-quantitative sampling

Cat. No.	Volume (ml)	Sterile	Units/box	Price/box
391474*	1.5	No	100	N/A -
391475*	5	No	100	N/A -

* Economic models



Wide-mouth transfer pipettes

Facilitate the handling of fragile or high viscosity products.

- In LDPE
- Large bulb
- Total length: 125 mm
- Internal diameter of the tip: 5.5 mm

Cat. No.	Description	Units/box	Price/box
380514	Wide-mouth transfer pipette	500	N/A -

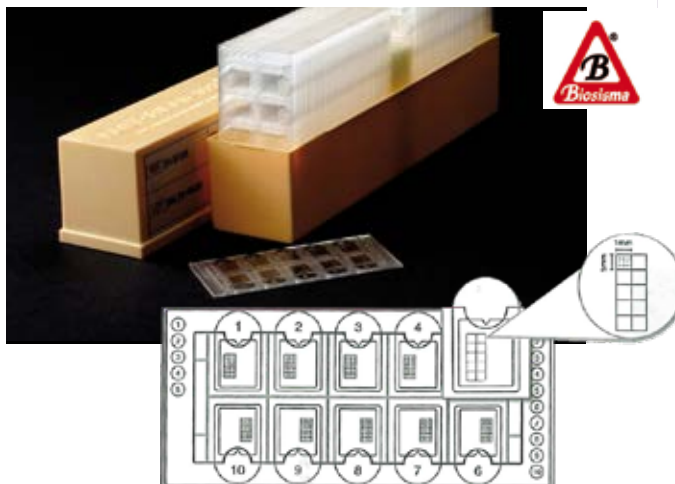


Fast-Read 102® Plastic counting cells

10-grid PPMA slides for counting cells per μ l.

Cell volume (μ l)	7
Grid dimensions (mm)	5 x 2
Depth (mm)	0.1
Grid volume (μ l)	1
Square dimensions (mm)	1 x 1
Square volume (μ l)	0.1
Chamber volume (μ l)	37

Cat. No.	Description	Price
390497	Fast-read® slides, 10 chambers x 100	N/A -
390498	Fast-Read® 100 slides Kit, 10 chambers + 1000 transfer pipettes	N/A -
390499	Fast-Read® 100 slides kit, 10 chambers + 1000 transfer pipettes + 1 bottle of dye 35 ml	N/A -

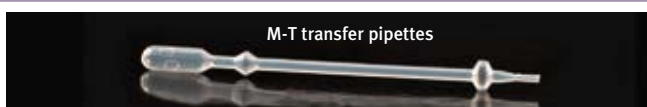


M-T® System for Fast-Read 102®

The use of the M-T® system combined with the Fast-Read 102® slide considerably reduces the risk of confusion with other cells, thus increasing the accuracy of the result.

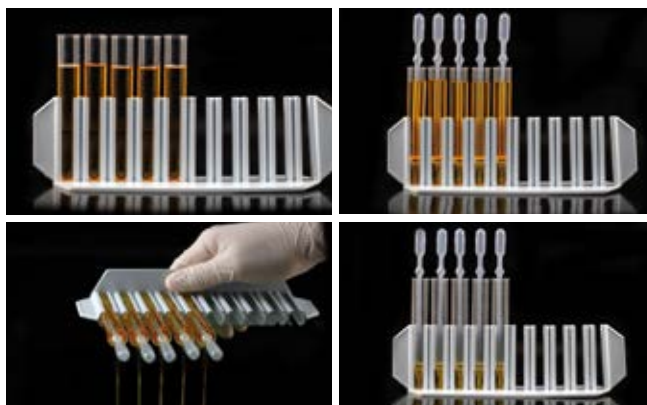
- Used for urine examinations, avoids overlapping of epithelial cells during sedimentation
- M-T® transfer pipettes: special calibration allowing 1 ml of sample to be blocked at the bottom of the tube
- Tubes for M-T® system: 16 x 103 mm, PS transparent, graduation 1/2.5/5/10 ml

Cat. No.	Description	Price
390508	1000 M-T® transfer pipettes + 1000 x 10 ml tubes	N/A -
391536	Rack For 10 tubes	N/A -
390503	Kit of 100 Fast-read® 10-chamber slides + 1000 M-T® transfer pipettes	N/A -
390506	Kit of 100 Fast-read® 10-chamber slides + 1000 M-T® transfer pipettes + 1000 x 10 ml tubes + 1000 caps	N/A -
390522	Conical tubes 16 x 103 mm graduated in PS (2000 units)	N/A -
390523	Conical tubes 16 x 103 mm graduated in PS (2000 units)	N/A -
390517	Tri-bulb pipettes for M-T® system (3000 units)	N/A -



➤ Principle

1. Place tube 390522 or 390523 containing the urine to be analysed in the express rack 391536 and centrifuge
2. Insert the 3-bulb M-T transfer pipette
3. Turn the rack over
4. You get 1 ml of resuspended sediment ready for analysis on slide Fast-Read 102®



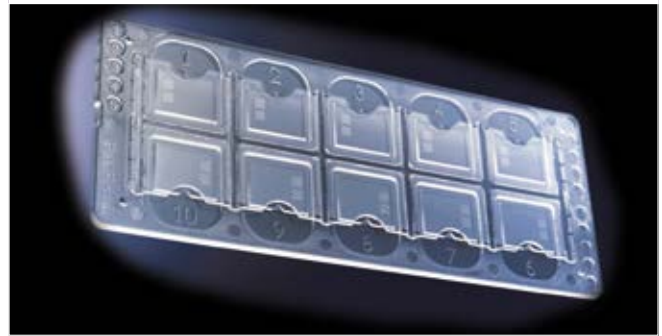
Transferettes 8-channel



- ▶ Clear polyethylene pipettes
- ▶ Delivers approximately 600 µl per channel
- ▶ Available in sterile and non-sterile versions

Cat. No.	Description	Units/box	Price/box
085017	Non-sterile Transferpette	25	N/A -
085018	Sterile Transferpette	100	N/A -

Quick Read Slide with counting grid



- ▶ High optical quality acrylic slide
- ▶ Includes 10 counting chambers with grids for counting
- ▶ Volume of each chamber: 6.3 µl
- ▶ L x W: 83 x 31 mm
- ▶ Thickness: between 1 and 2 mm
- ▶ Non-sterile
- ▶ In PMMA (polymethylmethacrylate)

Cat. No.	Description	Price 100 units
380500	Quick Read Slide	N/A -

G-slides single-use counting cells

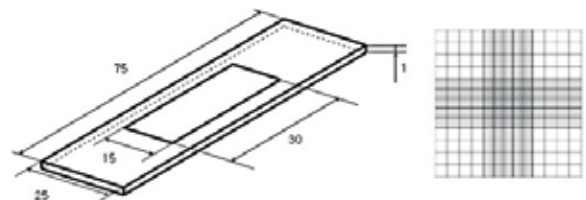
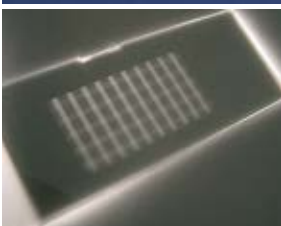


- ▶ Single use, no tedious cleaning, no risk of cross-contamination
- ▶ Light, transparent glass
- ▶ Reduces the risk of exposure to infected products
- ▶ Material: PMMA (polymethyl methacrylate)
- ▶ Ext. dim.: 25 x 75 mm, thickness: 1.2 mm
- ▶ Grids Neubauer, Burker Turk, Fuchs-Rosenthal; refractive index: 1.59; transparency same as glass (>86 %)

▶ Applications

- ▶ Cell tests: cell concentration, viability tests
- ▶ Blood analysis, blood cell count
- ▶ Microbiology: spore and bacteria counts
- ▶ Clinical medicine: sperm counting for IVF

Cat. No.	Description	Price 50 units
393000	Neubauer G-slide cells 10 µl	N/A -
393013	Neubauer G-slide cell 10 µl - 4 chambers	N/A -
393001	Fuchs-Rosenthal G-slide cell 10 µl	N/A -
393002	Burker Turk G-slide cell 10 µl	N/A -
393011	Burker G-slide cell 10 µl	N/A -
393012	Malassez G-slide cell 10 µl	N/A -



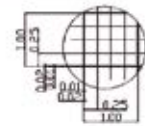
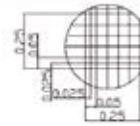
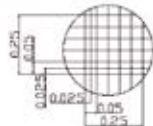
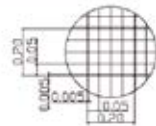
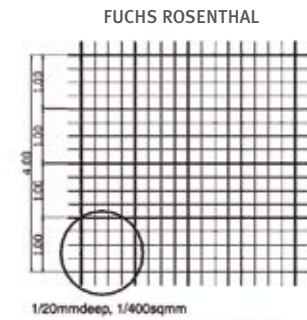
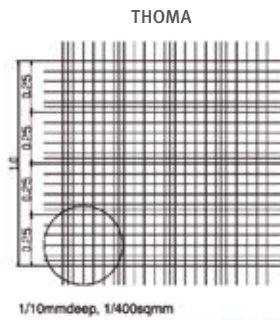
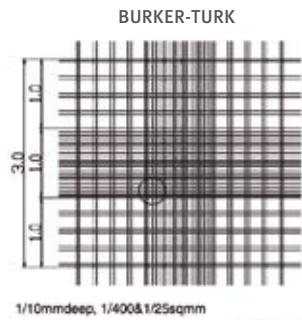
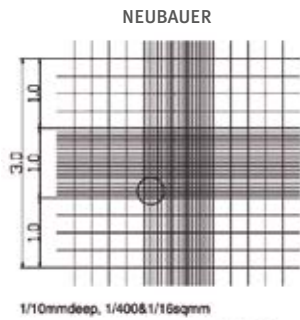
ANALYSIS AND MEASUREMENTS

Counting cells with 4 polystyrene grids

- Single-use 4-grid counting cells
- With integrated coverslip
- For easy, contamination-free counting
- For counting 4 samples independently
- 4 types of grid
NEUBAUER / BURKER-TURK / THOMA / FUCHS ROSENTHAL



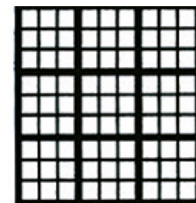
	NEUBAUER	BURKER-TURK	THOMA	FUCHS ROSENTHAL
Per box of 10	813001	813003	813005	813007
Price	N/A -	N/A -	N/A -	N/A -
Per box of 300 (30 x 10)	813000	813002	813004	813006
Price	N/A -	N/A -	N/A -	N/A -



Kovas Slide Plastic Counting Cell Slides

Slides with 10 individual gridded cells made of acrylic. Grid: 3 x 3 mm. Depth: 0.1 mm.
Grid: 9 slots divided into 9 squares.

Cat. No.	Description	Price/ per box of 100
050126	Kovas Slide	N/A -

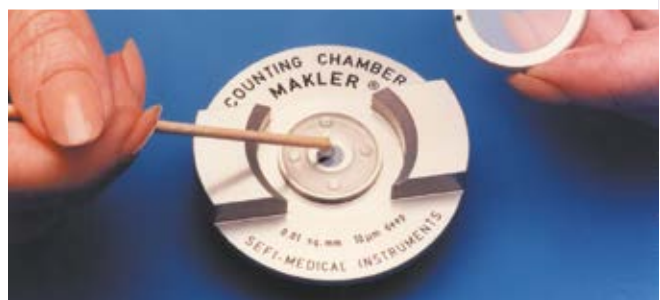


Makler cell

Depth counting cell for obtaining a single layer of spermatozoa.

- Coverslip gridded in 100 grids of 0.1 mm on each side
- 10 µm gap between cell and coverslip

Cat. No.	Description	Price
000972	Makler chamber with grid	N/A -
000973	Replacement grid	N/A -



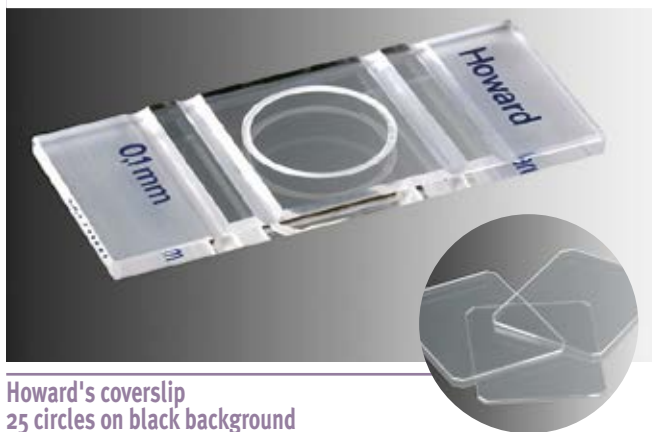
Sedgewick Rafter cell

- With coverslip
- For particle counting in 1 ml of water
- Graduated cell with a 1 mm grid that divides 1 ml into 1000 µl
- Cell dimensions: 50 x 20 x 1 mm

Cat. No.	Description	Price
140470	Sedgewick Rafter cell	N/A -
140471	Sedgewick Rafter plastic cell	N/A -
140472	Replacement coverslip 60 x 30 x 1 mm	N/A -



Howard's cells



Howard's coverslip

25 circles on black background

- A black mask
- 5 x 5 slots

Cat. No.	Description	Price
140464	Howard's coverslip 25 circles on black background	N/A -

Howard cell

- For the examination of fruit juice
- Depth 0.1 mm, 2 lines 1402 μm apart, 18 mm circle
- Supplied without cover slip

Cat. No.	Description	Price
140460	Howard cell	N/A -

Howard cell without line

- Supplied without cover slip
- Depth 0.1 mm, diameter: 20 mm

Cat. No.	Description	Price
140463	Howard cell without line	N/A -

Coverslips for Howard's cells

Cat. No.	Description	Price
140461	Coverslips 25 x 40 x 0.4 mm for Howard cells	N/A -
140462	Coverslips 25 x 40 x 0.4 mm chrome plated 5 x 5 circles \varnothing 1.382 mm	N/A -

Mac Master cells



Spare coverslip for Mac Master cells

- 80 x 18 mm
- 3 networks 10 x 10 mm

Cat. No.	Description	Price
140466	Spare coverslip for Mac Master cells	N/A -

Mac Master 2 field cell

- Ground edges
- 2 networks
- With coverslip
- Glued to 3 spacers
- Dimensions: 75 x 32 mm

Cat. No.	Description	Price
140467	Mac Master 2 field cell	N/A -

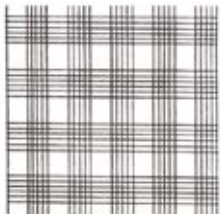
Mac Master 3 field cell

- Ground edges
- Rounded corners
- With coverslip
- 3 networks 10 x 10 mm
- Holding clamps
- Dimensions: 127 x 26 mm

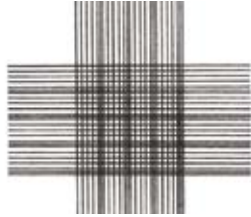
Cat. No.	Description	Price
140465	Mac Master 3 field cell	N/A -

Counting cells

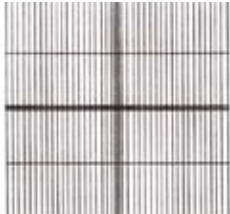
High precision glass cells with engraved striations. Single, double grid, metallic (light stripes with better contrast).



Malassez



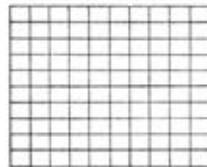
Thoma



Lemaur



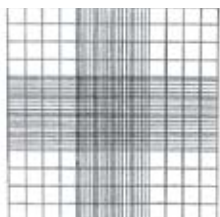
Nageotte



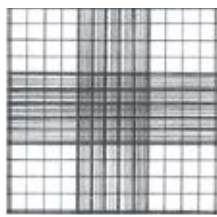
Agasse Lafont



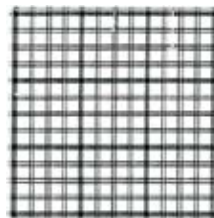
Flat coverslips



Neubauer



Improved Neubauer



B Bürker



Counting cells - suitable for in-vitro diagnosis - CE marked - with double counting grid

Type	Grid	Depth (mm)	Gridded (mm ²)	Numeration	Cat. No.	Price
Malassez	Double	0.2	5	Red blood cells-Leukocytes	140501	N/A -
Malassez	Double Metallic	0.2	5	Globular	140533	N/A -
Malassez	Double	0.2	5	Red blood cells-Leukocytes	900589**	N/A -
Malassez	Double Metallic	0.2	5	Globular	900590**	N/A -
Thoma	Double	0.1	1	Red blood cells-Leukocytes	140503	N/A -
Thoma	Double Metallic	0.1	1	Globular	140535	N/A -
Nageotte	Double	0.5	10	Spinal Cord	140506	N/A -
Nageotte	Double Metallic	0.5	10	Spinal Cord	140532	N/A -
Neubauer	Double	0.1	3	Erythrocyte-Leukocytes	140515	N/A -
Neubauer	Double Metallic	0.1	3	Erythrocyte-Leukocytes	140528	N/A -
Improved Neubauer	Double	0.1	3	Erythrocyte-Leukocytes	140514	N/A -
Improved Neubauer*	Double	0.02	3	Erythrocyte-Leukocytes	140469	N/A -
Improved Neubauer	Double Metallic	0.1	3	Erythrocyte-Leukocytes	140527	N/A -
Bürker	Double Metallic	0.1	9	Red blood cells-Leukocytes	140529	N/A -

* Petroff type ** With clamps

Coverslips for counting cells

Coverslips specially designed for counting cells. Thickness: 0.4 mm.

Cat. No.	L x W (mm)	For cells	Type	Units/box	Price/box
140537	22 x 22	Simple	Malassez, Neubauer, Thoma, Fuchs-Rosenthal, Lemaur, Agasse Lafont	10	N/A -
140536	20 x 26	Double	Malassez, Neubauer, Thoma, Fuchs-Rosenthal, Lemaur, Agasse Lafont	10	N/A -
140583B*	22 x 32	Double	Nageotte	100	N/A -
900596*	30 x 30	Double	Nageotte	100	N/A -

* Thickness no. 1

High definition Neubauer counting cells

- High precision cells for in-vitro diagnosis with black or clear count line
- V-slash system facilitates capillary deposition and reduces the risk of spillage
- Approved for in vitro diagnostic use, CE / IVD marking according to Directive 98/79/EC

Cat. No.	Type	Colour of count line	Price
900504	Improved Neubauer	Black	N/A -
900505	Improved Neubauer	Clear	N/A -



E-counter colony counter



- Use Sharpie markers
- Each press of the marker tip increments the digital counter
- Possibility of counting by zone (1 to 9 delimited on a Petri dish) to sum up the count of all zones
- Can be used with or without an acoustic signal
- Automatically switches off after 10 minutes of non-use
- The E-counter is kept on its vertical stand with the Sharpie marker inserted and capped
- Supplied with a CR1225 button cell battery, a stand

Cat. No.	Description	Price
037809	Colony counter	N/A -
098442	Spare battery CR 1225	N/A -

Stuart CS6PLUS Colony Counter

Manual colony counter, with LED lighting.

Each press on the Petri dish will start the counting and increment from 0 to 999.



Magnifier not included, available as accessory.

- Data transfer to a PC via the supplied USB cable
- Top and bottom illumination with an LED lamp to avoid glare and heat transfer
- Supplied with a Wolffhuegel graticule, a centring disc for easy reading with 50-90 mm Petri dishes, and a black background to improve visualisation of transparent colonies
- Beeps each time it is pressed
- Can be fitted with a magnifying glass for better viewing (to be ordered separately)
- Biocote anti-microbial coating

Cat. No.	Description	Price
001800	Colony Counter SC6PLUS without magnifying glass	N/A -

Accessories

Cat. No.	Description	Units/box	Price/box
001175	Magnifying glass 1.7 x for SC6PLUS	1	N/A -
491116	Magnifying glass 3 x for SC6PLUS	1	N/A -
491117	Wolffhuegel grid	10	N/A -
491118	Centering adapter for SC6PLUS	2	N/A -
491119	Set of 5 protective discs for SC6PLUS	5	N/A -
491120	Box holder	1	N/A -

SCAN 100 manual colony counter



Supplied complete with:

- Petri dish adapter ø 90 mm;
- white background;
- USB connection cable;
- power cable;
- user's manual.

Magnifying glass not included, to be ordered separately.

- Uniform illumination with long-life LEDs (dark field technology)
- Data transfer via USB (Word, Excel, Note Pad...)
- Stainless steel, compact (25 cm wide)
- Petri dish diameter: 55, 65, 90 and 150 mm
- Multifunction digital display
- Counting: from 0 to 1999 CFU
- Adjustable count signal volume
- Adjustable pressure sensitivity
- Ergonomic hand rest for maximum comfort
- Practical and accessible storage drawer
- Can be used with any pencil
- Dimensions: 31 x 25 x 17 cm / Weight: 5.2 kg

Cat. No.	Description	Price
150322	SCAN 100 manual colony counter	N/A -
150330	Magnifying glass with flexible arm for SCAN 100	N/A -
150346	Multi-media adapter for reading PetriFilm™, Sanita-kun™ or Compact Dry™	N/A -

Schuett colony counter

The Schuett colony counter is suitable for reliable and efficient counts:

- of bacterial colonies on Petri dishes;
- of phage plates developed on agar;
- of bacterial colonies grown on nutrient discs.

- **3 lighting modes: bottom, sides, top (optional)**
- **Counting of up to 99 individual series and 32 500 colonies and calculation of averages**
- **Data transfer to PC via USB**
- **Very high transparency of the colonies thanks to LED lighting, heat transfer to the sample is almost zero**
- **4-digit digital display**
- **Dimensions (L x H x D): 260 x 130 x 250 mm**
- **Height with adjustable magnifier/lamp: approx. 300 mm**
- **Magnification: 3 x or 8 x (optional)**
- **Size for Petri dishes: 50-60, 90-100 or 140-150 mm (optional)**
- **Counting tone: yes (adjustable)**
- **Weight: 1.5 kg**
- **Counter supplied with marker, 90 mm diameter Petri dish adapter, black contrast disc**



Can be used with a pen tip; pressure applied to the Petri dish triggers the count and performs the increment from 0 to 9999.

Easy correction mode using arrow keys.

For counting large numbers, the reading is facilitated by a Wolffhügel disc (optional).



**See our other lamp models - magnifiers:
page 1421 to 1425**

Cat. No.	Description	Price
110591	Colony counter	N/A -
110592	Magnifying glass 3 x	N/A -
110593	Magnifying glass 8 x	N/A -
110594	LED lamp	N/A -
110595	Adapter for Petri dishes ø 50 - 60mm	N/A -
110596	Adapter for Petri dishes ø 140 - 150mm	N/A -
110597	Black and white guide disc for spiral spreading	N/A -
110598	Wolffhügel black and white disc	N/A -
110599	Counting needle	N/A -
150592	Marker	N/A -

Galaxy 330 colony counters

- **Counting by pressing on the Petri dish with a pen**
- **Display of the current and previous three counts**
- **Average calculation over several counts**
- **Backspace button in case of overcount**
- **Petri dishes from Ø 90 to 150 mm or 60 mm can be counted**
- **886055: version including the software pack for saving, printing and exporting data in excel format (csv file)**

	Colony counter only	Colony counter with software package
Cat. No.	886054	886055
Price	N/A -	N/A -

Accessory

Cat. No.	Description	Price
886057	Software pack with USB cable and 8 GB USB stick	N/A -



Cellcounter cell counter

- **3.5" TFT colour display**
- **5 function keys, 15 keys and 4 counting programs**
- **A freely programmable key**
- **Actual or percentage count**
- **Dimensions: 130 x 235 x 35 mm**
- **USB power supply with 5 V DC adapter included**

Cat. No.	Description	Price
900621	Cellcounter cell counter	N/A -



Lamp - desk Magnifying glass to stand or clamp



- > Magnifications: 2.25 x and 4 x
- > Lens Ø 90 mm and double focus Ø 20 mm
- > Illumination: 2200 lux
- > Light intensity: 550 lumens
- > Table lamp, or vertical or horizontal clamp fixing
- > Touch power on/off
- > 25 cm articulated arm
- > Power supply: 6 W (incl. 230 VAC - 12 VDC adapter)

Cat. No.	Description	Price
098497	Lamp - desk Magnifying glass to place / to clamp	N/A -

Cell counters



- > 5- or 8-key model, Reset button
- > Ideal for leukocyte counts
- > Includes a totalization dial, increment: 1 to 999 per channel

Cat. No.	Number of keys	Of which one totalization key	Price
068497	5	Yes	N/A -
068498	8	Yes	N/A -

Manual counters



- > Hand-held counter with buttons, chrome-plated metal body
- > 4 digits with general reset
- > Adds one unit to each press

Cat. No.	Type	Number of counters	Price
045320	Hand-held with ring	1	N/A -
045321	On base	1	N/A -
053205B	On base	2	N/A -
053206B	On base	3	N/A -
053207B	On base	4	N/A -
053208B	On base	5	N/A -
098468	On base	10	N/A -

Score 506 manual counter



- > 5-key model + totalizer
- > Direct reading of 5 counters + totalizer
- > Blocking and beeping at 100 counts
- > Possible increase during counting
- > Last keystroke correction button
- > Result key for the number of items in percent
- > LCD display

Dimensions L x D x H (mm)	255 x 135 x 40
LCD display dimensions (mm)	150 x 17
Net / gross weight (kg)	0.8 / 2.1
Power supply	230 V - 50/60 Hz
Cat. No.	195501
Price	N/A -

Score 724 counter



- > 24 user-definable keys
- > 6 keys configurable as event counter not counted in the formula
- > Blocking and beeping at the programmed number
- > Result of the number of items as a percentage
- > Storage of files by number
- > Correction of last keystrokes
- > Possible increase during counting
- > LCD display
- > Delivered with a USB key

Dimensions L x D x H (mm)	200 x 250 x 40
LCD display dimensions (mm)	120 x 70
Net / gross weight (kg)	1.03 / 2
Power supply	230 V - 50/60 Hz
Cat. No.	195502
Price	N/A -

Round mechanical timer 60 minutes

- Countdown 60 min.
- To place / To hang / Magnet
- Dimensions: 90 x 90 mm
- Weight: 100 g



Cat. No.	Description	Price
053266	60 minute mechanical timer	N/A -

Mechanical table timer 120 minutes

- Single mechanical down counter
- Without battery
- No need for winding before use
- L x H x D: 72 x 72 x 50 mm



Cat. No.	Description	Price
045529	Timer 120 minutes	N/A -

60 minute mechanical timer

- Timer 60 minutes
- Yellow and white
- With handle and magnet
- Dim.: 70 x 40 x 70 mm
- Weight: 108 g



Cat. No.	Description	Price
090003	60 minute mechanical timer	N/A -

Up/down counter 100 minutes

- Up/down counter
- Exterior in brushed anti-corrosion aluminium
- Alarm 1 min / memory
- Timer with memory function
- Capacity: 100 min per second
- Convenient to place standing, magnetic or wall mounted
- Screen: 47 x 20 mm (digits: 17 mm)



Cat. No.	Description	Price
095319B	Up/down counter 100 minutes	N/A -
095370	AAA batteries	N/A -

Quartz tabletop counter

- 2 divisions 60 minutes / 100 min
- Observation: 1 to 60 seconds
- Luminous digits and pointers
- Totalizer 60 min
- R6 battery operated
- L x W x D: 175 x 130 x 49/95 mm



Cat. No.	Description	Price
045318	Quartz counter	N/A -
045319	Battery R6	N/A -

Mechanical rotary timer

- 60 minute mechanical rotary timer
- Red rotating display disc
- Grey ABS case, acrylic "glass"
- Magnetic
- Dim. Ø x D: 79 x 33 mm
- Optional red stand:
 - in red lacquered steel with magnet
 - dimensions: 120 x 55 x 95 mm
 - weight 200 g



Cat. No.	Description	Price
253029	Mechanical timer 60 min	N/A -
963181	Red lacquered steel stand	N/A -

Digital tabletop counter 2 down counters



- Capacity: 10 h to 1/10⁶ sec, 10 000 mn to 1/100⁶ mn
- Counter/2 independent/combined/repetitive countdowns
- 3 beeps before the end of the cycle
- 100 dB
- Clock
- Digits: 20 mm
- ABS case
- Dim: 180 x 130 x 49/95 mm
- Weight: 390 g
- AAA battery

Cat.No.	Description	Price
053288	Digital tabletop counter 2 down counters	N/A -
095705	Spare battery 1,5 V R03 (10 units)	N/A -

2 or 4 channel timers



- 2 or 4 independent or simultaneous channels
- Capacity: 24 hrs
- Exceeding time limit
- Screen size: 115 mm
- Weight: 390 g
- Batteries: 2 x AA (R6)

Cat.No.	Description	Price
090001	Prisma 200 white 2-channel timer with batteries	N/A -
090002	Prisma 400 white 4-channel timer with batteries	N/A -
045319	Spare battery 1,5 V R6	N/A -

Tabletop hourly and decimal up/down counters



- Capacity: 24 h - per sec.
- 100 min - 1/100th sec
- 10 000 sec - 1/100th sec
- 2 000 min - 1/100th min
- Net time / intermediate
- Time of 1st and 2nd
- Countdown/memory
- Exceeding time limit
- Clock / alarm
- Dimensions: 165 x 95 x 67 mm
- Weight: 350 g
- Battery R14

Cat. No.	Description	Price
053289	Counter 2 hourly and decimal 24 hour down counters	N/A -

Manual pulse counter



- 5-digit counter
- Up/down counting or staggered counting functions, reset
- Dimensions L x D x H: 55 x 20 x 90 mm
- Weight: 40 g
- Battery LR 44

Cat. No.	Description	Price
095395	Manual pulse counter	N/A -

Pulse counter with digital display



- Digital
- ABS plastic case
- 5 digits on 30 x 40 mm display
- Reset
- Increment
- Battery: LR44 1.5 V

Cat. No.	Description	Price
098427	Digital hand pulse counter	N/A -
095304B	LR 44 button cell battery (2 units)	N/A -

Miniature up/down counter



- Alarm 30 s / Memory
- Capacity 100 min / sec
- Clamp/Magnet
- Display 18 x 9 mm
- Digits: 7 mm
- Dim.: 57 x 40 x 12 mm
- Weight: 40 g
- 357 battery

Cat. No.	Description	Price
095373	Miniature up/down counter	N/A -
095304B	Batteries LR 44 (2 units)	N/A -

Pocket down counter / timer 100 h



- Up/down counter / 4 independent channels
- Max time: 100 hrs
- Resolution: 1 sec.
- Clock / alarm
- Magnet / Clip
- Height digits: 6 mm
- Dim. 61 x 71 x 25 mm
- Battery: LR44 1.5 V

Cat.No.	Description	Price
037867	Pocket down counter/timer	N/A -
095304B	Batteries LR 44 (2 units)	N/A -

Counter/3 down counters



- 3 independent screens
- Clock / Stopwatch / 3 countdowns 20 h to sec
- Independent or simultaneous starts
- Exceeding time / Memories
- Stand / Magnet / Mounting bracket
- Dimensions: 120 x 101 x 20 mm
- Weight: 210 g
- Batteries: AAA

Cat.No.	Description	Price
089440	Counter / 3 down counters	N/A -
095705	Spare battery 1.5 V Ro3 (10 units)	N/A -

Lab Alert Triple Timer 20 h



- Up/down counter / 3 independent or simultaneous channels
- Memory recall
- Max time: 20 hours
- Resolution: 1 sec.
- Clock / alarm
- Height digits: 10.5 mm
- Dim.: 86 x 66 x 22 mm
- Battery: AAA 1.5 V

Cat.No.	Description	Price
037871	Triple Timer	N/A -
095705	Spare battery 1.5 V Ro3 (10 units)	N/A -

Dual large timer, 24-hour



- Down meter / 2 channels
- Simultaneous display clock / timer
- Max time: 24 hours
- Resolution: 1 sec.
- Clock / alarm
- Height digits: 25.5 mm
- Dim. 142 x 97 x 20 mm
- Battery: AAA 1.5 V

Cat.No.	Description	Price
037869	Dual large timer	N/A -
095705	Spare battery 1.5 V Ro3 (10 units)	N/A -

ClearLine® ClearTime I Timer



- Up/down counter
- Fast increment
- 30 sec. alarm
- Capacity: 100 min /sec
- Screen: 27 x 12 mm
- Digits: 10 mm
- Dimension: 62 x 52 x 24 mm
- With stand and magnet

Cat.No.	Description	Price
257091	ClearTime I timer	N/A -
095304B	LR 44 button battery (2 units)	N/A -

4-channel timer with rewritable whiteboard



- 4-channel
- Timer and stopwatch function
- Timer to 23 h 59 min
- 1 minute increments for countdown
- Audible alarm
- Foldable stand or magnetic attachment

Dim W x L x H (mm)	114.3 x 25.4 x 88.9
Whiteboard Dim. W x H (mm)	61 x 68.9
Display Dim. W x H (mm)	43.2 x 53.3
Battery	2 x AAA
Cat. No.	086733
Price	N/A -

4-channel down counter

- Up to 4 counters and/ or 4 countdowns 4 alarms 1' / 4 memories
- Capacity: 100 hrs
- Countdown in 1 sec intervals
- Clock / Alarm / Snooze function
- Exceeding time limit
- Display 50 x 21 mm
- Digits height: 20 mm
- Stand / Clip / Magnet
- Dim: 73 x 65 x 15 mm / 70 g

Cat.No.	Description	Price
095364	4-channel down counter	N/A -
095304B	LR44 button battery (2 units)	N/A -



Jumbo Timer

- 2-simultaneous channel down counter 24-hour (per second)
- 24-hour down counter (per second)
- Clock
- 4 simultaneous displays, 2 memories
- 2 alarms 1 minute
- Exceeded time countdown after alarm
- Table stand
- L x H x D: 95 x 140 x 15 mm



Cat.No.	Description	Price
045305	Jumbo Timer	N/A -
095705	Spare battery 1.5 V Ro3 (10 units)	N/A -

Triple Timer

- 3 alarms 1' / 3 memories
- Capacity 20 h / 1/100° sec
- Countdown in 1 sec intervals
- Exceeding time limit
- 3 times memorization
- Different audible alarm for each channel
- Clock
- Stand / Magnet
- Screen: 47 x 41 mm
- Dim.: 65 x 85 x 25 mm
- Weight: 100 g
- Supplied with 2 LR44 batteries



Cat.No.	Description	Price
045307	Triple Timer	N/A -
095304B	Battery LR44 (2 units)	N/A -

20-hour digital up/down counter with flashing or audible alarm

- Audible, vibrating or illuminated alarm
- Hour/minute or minute/second countdown
- Capacity: 19 h 59 or 99 min 59 sec
- Magnet and fixing clip
- Dim.: 75 x 48 x 31 mm
- Weight: 110 g
- Batteries 2 x AAA



Cat. No.	Description	Price
095390	Up/down counter with alarm	N/A -

Dual up/down counter



- 2 alarms 1' / 2 memories
- Capacity 24 h / sec
- Up Counting (or down-counting) on 2 channels only
- Exceeding time limit
- ABS case
- Screen: 45 x 20 mm
- Clock / Alarm / Delayed alarm every 5 minutes (Snooze)
- Stand / Clip / Magnet
- Digits: 15 mm
- Dimensions: 90 x 65 x 20 mm
- Weight: 80 g
- Battery LR03

Cat.No.	Description	Price
053265	Dual up/down counter	N/A -
095705	Spare battery 1.5 V Ro3 (10 units)	N/A -

Up/down counter - 2 channels



- ▶ Up to 2 up or down counters on 2 display lines
- ▶ Maximum capacity: 100 h with one second intervals
- ▶ Exceeding the time limit
- ▶ 2 alarms 1' / 1 memory per channel
- ▶ Adjustable noise level
- ▶ Warning light: green (counting down) / red (elapsed)
- ▶ Stand / Clip / Magnet
- ▶ Display: 17 mm
- ▶ Dimension: 90 x 76 x 20 mm / Weight: 85 g
- ▶ Batteries: 2 x AAA (supplied)

Cat.No.	Description	Price
098472	Up/down counter - 2 channels	N/A -
095370	AAA battery	N/A -

3-Memory Up/down counter



- ▶ Up/down counter function
- ▶ Capacity 100 min with 1 s resolution
- ▶ Exceeding the time limit
- ▶ 1 alarm 1' / 3 memories
- ▶ Adjustable noise level
- ▶ Warning light: green (counting down) / red (elapsed)
- ▶ Stand / Clip / Magnet
- ▶ Large display: 26 mm
- ▶ Dimensions: 90 x 60 x 20 mm / Weight: 70 g
- ▶ Batteries: 2 x AAA (supplied)

Cat.No.	Description	Price
098473	Up/down counter - 3 memories	N/A -
095370	AAA battery	N/A -

Radio-controlled quartz wall clock



- ▶ Black ABS case
- ▶ 7 languages: French, English, German, Italian, Spanish, Danish, Dutch
- ▶ Inner temperature
- ▶ Summer/winter time change
- ▶ Wall mounting or free standing
- ▶ Dimensions: 227 x 180 x 30 mm / Weight: 400 g

Cat.No.	Description	Price
098443	Radio-controlled quartz wall clock	N/A -
045319	Battery 1.5 V R6	N/A -

Diode clocks



6-digit display



4-digit display

- ▶ Black ABS case
- ▶ Wall mounting
- ▶ Fixed or alternating display of time and date
- ▶ Red LED display as standard; optional green or blue LEDs
- ▶ Supplied with an infrared remote control with a range of 10 m
- ▶ 30 programmable alarms with relay output (optional buzzer)
- ▶ IP67 waterproof: suitable for outdoor use under cover
- ▶ Optional room air temperature sensor and synchronisation antenna
- ▶ Power supply 220 V - 50 Hz

Red LEDs							Options			
Cat.No.	Digits Number	Digits size(cm)	Legibility (m)	Dimensions L x W x D (mm)	Weight (kg)	Price	Leds green Cat. No.	Leds green Price	Leds blue Cat. No.	Leds blue Price
098492	4	10	40	350 x 185 x 45	1.5	N/A -	098517	N/A -	098518	N/A -
098511	4	20	70	630 x 300 x 45	3	N/A -	098519	N/A -	098520	N/A -
098512	6	10	40	510 x 185 x 45	2	N/A -	098521	N/A -	098522	N/A -
098513	6	20	70	920 x 300 x 45	4	N/A -	098523	N/A -	098524	N/A -

Options compatible with all models

Cat.No	Description	Price
098514	2 m synchronisation antenna for automatic summer/winter time change	N/A -
098516	2 m temperature sensor from -50 °C to +100 °C	N/A -
098515	88 dB alarm buzzer and relay output connection	N/A -

Clock diameter 250 mm

- Ø 250 mm / Legibility 15 m
- Aluminium case / Mineral glass
- Quartz movement
- Radio control / Summer/winter time changeover
- Weight: 620 g
- Battery: AA



Cat.No	Description	Price
053291	Metal alu clock, mineral glass, diameter: 250 mm	N/A -
045319	Spare Battery AA	N/A -

Timer with snap hook

- Scalable alarm:
 - 4 beeps at 10 min
 - 8 beeps at 50 sec
 - 1' at the end of the cycle
- Capacity 20 h/sec
- Clock
- Screen: 18 x 9 mm
- Digits: 7 mm
- Battery LR44
- Dimensions: 80 x 38 x 20 mm
- Weight: 40 g



Cat.No	Description	Price
045306	Timer with snap hook	N/A -
095304B	LR44 button battery (2 units)	N/A -

15 and 30 minute mechanical chronometers

- Totalizer: 15 or 30 minutes depending on model
- Resolution: 1/5°, 1/10° or 1/100° depending on model
- Start/Stop
- Reset by side pushbutton
- Start/Stop via the crown
- Addition function
- Polished metal case, plastic crystal
- Diameter: 50 mm
- Weight: 96 g



Cat.No.	Totalizer	Resolution	Price
095312	15 minutes	1/10° sec	N/A -
095308*	30 minutes	1/5° sec	N/A -
095310	30 minutes	1/5° sec	N/A -
095315	30 minutes	1/100° min	N/A -

* The Cat. No. 095308 has a single on-off-reset button, without time accumulation.

Waterproof digital chronometer

- Economic
- Waterproof (3 ATM)
- Large digital display
- Counting to 100th of a second, over 10 minutes
- SPLIT and LAP functions
- Extended immersion (30 min), IP 67
- Dimensions W x D x H (mm) 65 x 18 x 75
- Weight: 50 g



Cat. No.	Description	Price
095394	Waterproof chronometer	N/A -

ClearTime II ClearLine® Timer



- Up to 2 counters and/or 2 down counters
- Clock, alarm, snooze functions
- Fast incrementing
- 2 alarms 1 mm
- Capacity: 24 hours per second
- Exceeding time
- Screen: 40 x 17 mm
- Digits: 15 mm
- Dimension: 67 x 55 x 20 mm
- With stand, clamp and magnet

Cat.No.	Description	Price
257092	ClearTime II timer	N/A -
095304B	LR 44 button battery (2 units)	N/A -

Economic chronometer

- Stopwatch 24 h 1/100
- Simple time, time addition, split
- Time and calendar
- Waterproof

Cat.No.	Description	Price
045315	Economic chronometer	N/A -
045322	Battery CR2032	N/A -



Digital stopwatch with 30 memories



- ▶ 10 hour capacity with 1/1000 second resolution
- ▶ 2 display lines, height 9 mm
- ▶ 30 memories: intermediate SPLIT time (elapsed since the start) or LAP time (between intervals)
- ▶ Up to 99 intermediate measurements
- ▶ Countdown
- ▶ Automatic switch-off after 30 minutes
- ▶ Silent mode
- ▶ Dimensions: 75 x 60 x 20 mm
- ▶ Weight: 100 g
- ▶ Waterproof 1 ATM
- ▶ Operates with 2 LR44 batteries in parallel

Cat. No.	Description	Price
098494	Digital stopwatch with 30 memories	N/A -

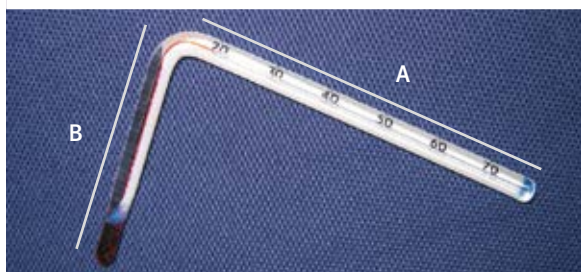
Digital chronometer 1 display line



- ▶ Counting over 24 hours from 1/100th sec to 30 min and per second from 30 min to 24 h
- ▶ Times of the 1st and 2nd arrivals
- ▶ Net time
- ▶ Intermediate time «Split»
- ▶ Start/stop sound
- ▶ Clock / calendar
- ▶ Alarm (alarm clock)
- ▶ ABS case
- ▶ Photovoltaic cell
- ▶ Solar energy/Internal battery
- ▶ Works even in low light
- ▶ Dim: 70 x 55 x 17 mm / Weight: 90 g

Cat.No.	Description	Price
098423	Solar powered stopwatch	N/A -

Angled thermometer



- ▶ For temperature control of baths
- ▶ Red liquid
- ▶ +20 °C to +70 °C
- ▶ Dimensions: A = 110 mm; B = 65 mm

Cat. No.	Description	Price
069668	Angled thermometer	N/A -

Red liquid rod thermometer



- ▶ Diameter: 6/7 mm
- ▶ Length: 180 mm
- ▶ Red liquid
- ▶ -10 °C to +50 °C

Cat. No.	Description	Price
022555	Rod thermometer -10 °C to +50 °C	N/A -

Mercury-free clinical thermometer



- ▶ Environmentally friendly, mercury-free, composed of gallium, indium and tin
- ▶ Delivered in a rigid case, to be disinfected by immersion
- ▶ Highly accurate ($\pm 1/10$ °C), for temperature measurements from 37 to 41 °C

Cat. No.	Description	Price
794063	Mercury-free thermometer	N/A -

Analogue metal thermometer



- ▶ For indoor use
- ▶ Temperature: - 30 to + 50 °C
- ▶ Resolution: 1 °C
- ▶ White metal
- ▶ Dimensions: 205 x 40 x 9 mm
- ▶ Weight: 40 g

Cat.No	Description	Price
253362	Analogue metal thermometer	N/A -

Glass cooking thermometer

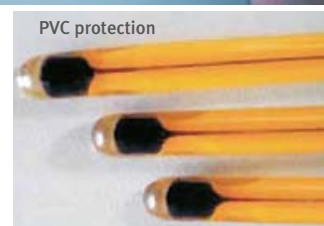


- ▶ Glass
- ▶ Temperature: - 10 to + 100 °C
- ▶ Metal case
- ▶ L: 150 mm
- ▶ Weight: 20 g

Cat.No	Description	Price
053302	Glass cooking thermometer	N/A -

Bio-Temp rod thermometers

- On yellow enamelled rod
 - The blue printed scale and immersion indication on the back are completely indelible and resistant to chemical agents
 - In partial immersion thermometers a line and arrow indicate the immersion level
 - The triangular suspension ring prevents the thermometer from rolling away even on flat surfaces
 - The blue liquid column facing the yellow stem provides exceptional reading clarity
 - The scales are adapted to cover the most commonly used temperature ranges, with 0.1 °C and 0.2 °C subdivisions possible
 - Filled with an environmentally safe blue organic liquid
 - Highly resistant, stackable individual packages made of recyclable plastic allows for easy storage of instruments
- **PVC protection features**
- Completely safe thermometers
 - With magnifying effect
 - Very robust, more economical than Teflon thermometers



Teflon protection

Cat. No.	Scale (°C)	Divisions (°C)	Long. (mm)	Accuracy (°C)	Immersion	Price
022521	-1 + 101	0.1	610	0.5	Total	N/A -
022522	-1 + 51	0.2	460	0.6	Total	N/A -
022523	-1 + 101	0.2	460	0.6	Total	N/A -
022524	-10 + 250	1	405	3	76 mm	N/A -
022527	-20 + 150	1	305	2	Total	N/A -
022529	-50 + 110	1	305	2	Total	N/A -
022531B	-100 + 30	1	305	2	Total	N/A -
022532	-100 + 30	1	305	2	76 mm	N/A -

PVC protection

Cat. No.	Scale (°C)	Divisions (°C)	Long. (mm)	Accuracy (°C)	Immersion	Price
022533	-20 + 110	1	305	2	Total	N/A -
022534	-20 + 110	1	305	2	76 mm	N/A -
022535	-50 + 110	1	305	2	Total	N/A -
022536	-50 + 110	1	305	2	76 m	N/A -
022537	-100 + 30	1	305	2	Total	N/A -

General use

Cat. No.	Scale (°C)	Divisions (°C)	Long. (mm)	Accuracy (°C)	Immersion	Price
022519	-10 + 250	1	405	3	76 mm	N/A -
022518	-20 + 150	1	305	2	Total	N/A -
022517	-20 + 150	1	305	2	76 mm	N/A -
022516*	-20 + 110	1	305	2	Total	N/A -
022515	-20 + 110	1	305	2	Total	N/A -
022513	-20 + 110	1	305	2	76 mm	N/A -
022512	-50 + 110	1	305	2	76 mm	N/A -
022511	-50 + 110	1	305	2	Total	N/A -
022510	-100 + 30	1	305	2	76 mm	N/A -
022508	-10 + 110	0.5	305	1	Total	N/A -
022507	-10 + 110	0.5	305	1	76 mm	N/A -
022506	-10 + 60	0.5	305	1	Total	N/A -
022505	-10 + 60	0.5	305	1	76 mm	N/A -
022504	-1 + 101	0.2	460	0.6	Total	N/A -
022503	-1 + 51	0.2	460	0.6	Total	N/A -
022502	-1 + 101	0.1	610	0.5	Total	N/A -
022501	-1 + 51	0.1	460	0.5	Total	N/A -

* 6 units, in sealed blister pack

ABS minimum/maximum thermometer

- Temperature: - 35 to + 50 °C
- Max/mini memory
- ABS
- Dimensions: 230 x 60 mm
- Weight: 140 g

Cat.No	Description	Price
053301	ABS minimum/maximum thermometer	N/A -



Multi-purpose glass thermometer - ABS sheath

- Glass / ABS sheath
- Temperature: - 10 to +120 °C
- Dimensions: 275 x 26 mm
- Weight: 60 g

Cat.No	Description	Price
053303	Multi-purpose glass thermometer	N/A -



Giant classic thermometer



- Temperature: -30 to +50 °C
- ABS white
- Dimensions: 400 x 68 mm
- Weight: 140 g

Cat.No	Description	Price
053297	Giant classic thermometer	N/A -

Pen thermometer



- Response time: 1 second
- Automatic shutdown: 10 min
- ON/OFF
- Delivered with case

Temperature range	-50.0 °C to 300 °C
Resolution	0.1 °C
Accuracy	± 1 °C
Battery	357
Probe dimensions	Ø: 3.8 mm / L: 120 mm
Weight	60 g
Cat. No.	098426
Price	N/A -

Refrigerator thermometer



- Red liquid thermometer
- ABS coated
- With refrigerator hook
- Temperature: -50 °C to +50 °C
- ø x H: 26 x 275 mm

Cat. No.	Description	Price
045625	Refrigerator thermometer	N/A -

Plastic thermometers



Cat. No.	Model	Amplitude (°C)	Div.	Price
022549	For freezers	-50 / +50	1	N/A -
022550	Thermo pen	-20 / +50	1	N/A -
022551	Wall thermometer 188x	-30 / +50	1	N/A -

Thermometers strips and stickers



- Thermometer strips and stickers are temperature-resistant self-adhesive labels
- They contain a heat-sensitive element
- Use to measure the temperature of a moving object or to make checks on small parts
- For maximum temperature control: use single-temperature self-adhesive stickers with temperature-sensitive element



Thermometers strips				Thermometers stickers				Thermometers stickers			
Temp. range	Cat.No	Units/box	Price/box	Temp. range	Cat.No	Units/box	Price/box	Temp. range	Cat.No	Units/box	Price/box
+60 +82 °C	057519	10	N/A -	+37 +65 °C	057525	10	N/A -	+65 °C	057527	50	N/A -
+88 +110 °C	057520	10	N/A -	+71 +110 °C	057526	10	N/A -	+71 °C	057528	50	N/A -
+116 +138 °C	057521	10	N/A -	+116 +154 °C	057533	10	N/A -	+77 °C	057529	50	N/A -
+143 +166 °C	057522	10	N/A -	+161 +204 °C	057534	10	N/A -	+82 °C	057530	50	N/A -
+171 +193 °C	057523	10	N/A -	+204 +260 °C	057535	10	N/A -	+110 °C	057531	50	N/A -
+199 +224 °C	057524	10	N/A -	-	-	-	-	+121 °C	057532	50	N/A -

Precision thermometers Frio-Temp

- Available in certified and uncertified versions
- Traceability to NIST, DAkkS, and most ILAC standards
- Mercury-free, thermometer filling with organic liquid
- Enviro-Safe: bottle containing environmentally safe preservative fluid (except for 086728 and 086729, glass beads filling)
- PFA safety coating for increased chemical resistance
- Graduations: 0.1 °C
- Certified versions delivered with calibration report

Cat.No	Operating environment	Long. (mm)	Temp. range	Accuracy	Certification points	Price
086720	Freezer	210	-25 to -5 °C	0.2 °C	Not certified	N/A -
086721	Freezer	210	-25 to -5 °C	0.2 °C	-20 °C, -10 °C	N/A -
086722	Refrigerator	180	-2 to 10 °C	0.2 °C	Not certified	N/A -
086723	Refrigerator	180	-2 to 10 °C	0.2 °C	0 °C, 5 °C	N/A -
086724	Incubator	180	15 to 30 °C	0.2 °C	Not certified	N/A -
086725	Incubator	180	15 to 30 °C	0.2 °C	20 °C, 25 °C	N/A -
086726	Incubator	190	25 to 45 °C	0.2 °C	Not certified	N/A -
086727	Incubator	190	25 to 45 °C	0.2 °C	30 °C, 40 °C	N/A -
086728	Oven	200	95 to 115 °C	0.4 °C	Not certified	N/A -
086729	Oven	200	95 to 115 °C	0.4 °C	100 °C, 110 °C	N/A -



Certified version - 2/10 °C

H-B Frio Temp thermometers

- To check the temperature of samples in refrigerators and / or Incubators
- The glass beads or the glycol used as thermal retarders allow to measure the real temperature of the samples while avoiding the contaminations
- Wireless thermometer with digital display
- Delivered with calibration documentation (ISO 17025)
- CE marking:
- Temperature range: 0 to 70 °C
- Accuracy: +/-0.5 °C / resolution: 0.1 °C
- Not suitable for ovens and freezers

Cat.No	Volume/ content	Probe Length (mm)	Dimensions (L x H) mm	Price
947876	30 ml/glass beads	50	38 x 114	N/A -
947877	30 ml/glycol	50	38 x 114	N/A -
947878	60 ml/glass beads	75	38 x 133	N/A -



947877

947876

947878

Waterproof thermometer

- Temperature: -50 °C to +300 °C
- Accuracy: ± 1 °C / Resolution: 0.1 °C
- Stainless steel probe Ø 3.5 mm x 10 cm / ABS handle 8 cm
- IP67 waterproof case, probe and handle
- Unit: °C / °F
- Max / Mini / Hold functions
- Clamp / Stand
- Display 40 x 15 mm
- Dim.: 105 x 65 x 25 mm / 150 g
- AAA battery



Cat.No.	Description	Price
095379B	Waterproof thermometer	N/A -
095705	Spare battery 1.5 V R03 (10 units)	N/A -

Pocket probe thermometer

- Temperature: -50 to +300 °C
- Accuracy: ± 1 °C up to 250 °C, ± 2 °C above
- Metal probe Ø 4 mm, L = 100 mm, cable 450 mm
- Resolution: 0.1 °C
- Max/mini memory
- High/low alarm
- « Hold » function
- Auto power off after 1 hour
- Dim.: 85 x 45 x 15 mm
- Weight: 200 g
- Stand/clamp/wall mount
- AAA battery



Cat.No.	Description	Price
095380	Pocket probe thermometer	N/A -
095705	Spare battery 1.5 V R03 (10 units)	N/A -

Magnetic dual indoor/outdoor thermometer



- Temperatures: -50 °C to +70 °C
- Accuracy ± 1 °C
- Max/mini memory
- Waterproof cable 3 m
- Immersion probe: ø 5.5 x 22.5 mm
- Stand / Magnet Wall mounting
- Battery: LR44
- Dimensions: 67 x 65 x 22 mm
- Weight: 45 g

Cat. No.	Description	Price
095377B	Magnetic dual indoor/outdoor thermometer	N/A -

Dual indoor/outdoor thermometer



- Int./ext. Temperature: 0 °C to +60 °C (± 1 °C)
- Waterproof cable: 90 cm
- Waterproof probe: ø 7.3 m x 28 mm
- Stand / Wall mounting
- Dim.: 86 x 57 x 18 mm / 44 g
- Power supply: 2 x AAA batteries (not included)

Cat. No.	Description	Price
098484	Dual Indoor/Outdoor Thermometer	N/A -
095705	Spare battery 1.5 V R03 (10 pieces)	N/A -

Dual indoor/outdoor thermometer with triple display



- Triple display: current, minimum and maximum temperature
- Max/mini memory
- Waterproof cable 3 m
- Immersion probe ø 5.5 x H 22.5 mm
- Stand/magnet/wall mount

Temperature range (°C)	-50 to +70
Resolution (°C)	0.1
Accuracy (°C)	1
Dimensions L x H x D (mm)	67 x 65 x 22
Weight (g)	45
Batteries	Battery LR44
Cat. No.	963179
Price	N/A -

Indoor/outdoor thermometer



Dual display indoor/outdoor thermometer with max and min memory.

- Dual display screen
- Probe with 1 m cable
- Memory of maximum and minimum temperatures
- Temperature range: -50 °C to +70 °C / accuracy: +/- 2 °C / resolution: 0.1 °C
- Dimensions: 135 x 75 mm / weight: 75 g
- AA battery

Cat.No.	Description	Price
053204	Dual display thermometer int/ext	N/A -
095705	Spare battery 1.5 V R03 (10 units)	N/A -

Dual thermometer 2041/2M

- Large display/ with indoor and outdoor temperature and temperature alarms
- Indoor temperature: 0 to + 50 °C
- Outdoor temperature: - 30 °C to + 70 °C
- Max / min functions
- Indoor and outdoor temperature alarms, high and low temperature
- Stainless steel probe 3 m cable
- Stand/wall mount



Resolution / Accuracy	0.1 °C / ± 1 °C
Battery	2 x AAA
Dimensions	110 x 80 x 15
Weight	230 g
Cat. No.	098395B
Price	N/A -

Maxi-Mini Waterproof Thermometer

- Outdoor / Refrigerator / Freezer
- Temperature: - 50 to + 70 °C
- Resolution 0.1°
- Accuracy ± 1 °C
- Max / Mini
- Waterproof
- Stand / Wall mounting
- Dimensions: 115 x 75 x 44 mm
- Weight: 161 g



Cat. No.	Description	Price
053269	Thermometer for outdoor, refrigerator or freezer	N/A -

Digital thermometer - hygrometer recorder

- Recording frequency Settings (sampling rate: 2 s - 24 h) and time
- Stand-alone, with USB connection for immediate data processing on a PC
- Direct download of recorded data (graph, text or table) via USB port, 1 m cable and software supplied
- Temperature or humidity alarm function, min/max
- Splash-proof (IP 54) with protective cover (sensor not sealed)
- Supplied with base, fixing screws and padlock

Thermometry	- 40 to + 70 °C	
	Resolution / Accuracy	0.1 °C / ± 0.5 °C
Hygrometry	0 to 100% RH	
	Resolution / Accuracy	0.1 % RH / ± 2 % RH
Dew point (software only)	Resolution / Accuracy	0.1 °C / ± 3 % RH, ± 1 - 2.5 °C
	Memory	32 000 measurements
Recordings	Intervals	2, 5 or 10 s
		1, 5, 10 or 30 mn
		1, 2, 3, 6, 12 or 24 hours
Dim. W x D x H (mm)	30 x 25 x 130	
Battery	Lithium, life span 3 years	
Cat. No.	098415	
Price	N/A -	



Thermometer / hygrometer

- Stand or wall-mounted
- Batteries: 2 x AAA (not included)

T° range	0 to + 60 °C
T° accuracy	± 1 °C
Humidity range	10 to 99 %
Humidity accuracy	± 5 %
Dim. W x D x H (mm)	86 x 57 x 18
Weight (g)	38
Cat. No.	098463
Price	N/A -



Digital thermometer with probe



- Temperature: - 200 °C to + 850 °C
- Accuracy: ± 0.1 °C (18 to 28 °C, otherwise ± 0.3 °C)
- Max/Min and hold temperature functions
- Up to 10 memories
- Automatic ON/OFF
- Max. and min. temperature alarms
- Waterproof - IP67 standard
- PT 100 probe Ø 3.2 x 110 mm with 1.3 m cable
- Backlit display
- Dimensions (mm) 172 x 77 x 46
- Weight: 280 g
- 4 x AAA LR03 batteries
- Delivered with factory calibration certificate

Cat.No.	Description	Price
098483	Digital thermometer with probe	N/A -

Spare PT 100 probe

Cat.No.	Description	Price
098491	Spare PT 100 temperature probe	N/A -

Digital thermometer with removable probe



- Temperature: - 50 °C to + 200 °C
- Accuracy: ± 1 °C from - 19.9 °C to 119.9 °C / 2 °C above
- Resolution: 0.1 °C
- Maximum / minimum temperature and hold functions
- Stainless steel probe Ø 3.8 x 110 mm with ABS handle 9 cm
- 1.3 m cable with 2.40 mm Ø sub-jack connection
- To be placed (stand) / to be hung (fixing hole) / magnetised (magnet on the back)
- ABS case
- Display 36 x 16 mm
- Automatic shutdown after 10 minutes of inactivity
- Dimensions (mm) 97 x 65 x 20
- Weight 150 g
- AAA battery included

Cat.No.	Description	Price
098471	Digital thermometer with removable probe	N/A -

Thermometers with thermal retarder



- Ideal for limiting measured temperature variations
- Available in 5 versions
- Resolution: 0.1 °C
- Accuracy: ± 1 °C
- With minimum and maximum temperature alarm
- Thermal retarder consisting of a plastic bottle and 50 ml of an alcoholic solution (reference of the retarder alone: 963180)

Type	Thermometry	In/Out thermometer		Hygrometer thermometer	
Thermometer models	9290AT	9267AT	2041/2M	9221AT	9222AT
Int. Temperature range	- 50 to + 150 °C	- 50 to + 70 °C	- 0 to + 50 °C	- 50 to + 70 °C	
Ext. Temperature range	-	- 50 to + 70 °C	- 30 to + 70 °C	- 50 to + 70 °C	
Humidity display	-	-	-	20 to 100% RH	
Probe cable	1 m	Waterproof to 3 m	Waterproof to 3 m	3 m	
Probe Dimensions Ø x W (mm)	3 x 60	5.5 x 22.5	5.5 x 22.5	5.5 x 22.5	
Clock	No	No	No	Yes	No
Dimensions W x L x H(mm)	67 x 35	67 x 65 x 22	110 x 80 x 15	80 x 110 x 20	
Weight (g)	70	45	230	200	
Cat. No.	098447	098449	098448B	098450	098451
Price	N/A -	N/A -	N/A -	N/A -	N/A -

THERMOMETERS

Dual wireless indoor/outdoor hygrometer

- Radio controlled clock
- Indoor temperature: -10 °C to +50 °C / accuracy ± 1 °C
- Outdoor temperature: -30 °C to +70 °C / accuracy ± 1 °C
- Hygrometer 1 % to 98 % RH / accuracy ± 3 % / resolution 0.1 °C, 1 % RH
- Maxi/Mini function
- Radio controlled clock / calendar
- Supplied with 1 temperature sensor 053248, 2 optional
- Stand / wall mounting
- AA station / AAA transmitter batteries
- Dimensions: 142 x 30 x 80 mm / Weight: 380 g

Cat.No.	Description	Price
053247	Wireless Dual Hygrometer Thermometer	N/A -
053248	Temperature sensor	N/A -



Dual wireless indoor/outdoor thermometer

- Indoor temperature: -10 °C to +60 °C
- Outdoor temperature: -20 °C to +60 °C
- Resolution: 0.1 °C / Prec. ± 1 °C
- Max / Min functions
- Supplied with 1 Th transmitter
- Stand / Wall mounting
- Dim: 110 x 84 x 30 mm / 170 g
- Batteries: 2 x AA station / 2 X AAA transmitter (not included)

Cat. No.	Description	Price
053242B	Dual wireless thermometer with sensor	N/A -



Dual indoor/outdoor thermometer + alarm

- Indoor T°: -10 °C to +50 °C
- Outdoor T°: -50 °C to +70 °C
- Resolution 0.1 °C
- Accuracy ± 1 °C
- Unit °C / °F
- Maxi/Mini functions
- High and low outdoor alarms
- Stainless steel probe, 1.7 m cable
- Stand / Wall mounting
- Dim.: 110 x 70 x 20 mm

Cat. No..	Description	Price
053244	Dual thermometer + alarm	N/A -



Thermo-timers

- Timer and clock functions (91000-003/F model only)
- Maximum and minimum temperature alarm
- Model 91000-002/F: max/min memory function
- Model 91000-003/F: Tilttable screen, water resistant cable
- Delivered in blister

Model	91000-002/F	91000-003/F
Temperature	-50 °C to +300 °C -58 to +572°F	0 °C to +300 °C +32°F to +572 °C
Display resolution	0.1 °C	0.1 °C
Accuracy	± 1 °C (-20 °C to +100 °C) ± 2 °F (-4 °F + 212 °F) or ± 2 °C/ ± 4 °F	± 1 °C (0 °C à +150 °C) ± 2 °F (+32 °F + 302 °F) or ± 3 °C/ ± 5 °F
Timer	99 min 59 sec	23 h 59 min 59 sec
Stainless steel probe dimensions L x Ø (mm)	150 X 3.5	150 X 4
Stainless steel cable size (mm)	1000	1000
Cat. No.	022585	022586
Price	N/A -	N/A -



THERMOMETERS

Indoor/outdoor thermometer module



- ▶ Stand or wall-mounted
- ▶ Indoor / outdoor temperature: - 10 à + 60 °C / - 50 to + 70 °C
- ▶ Resolution 0.1 °C / Accuracy ± 1 °C
- ▶ 2.5 m immersion-proof wire probe
- ▶ Dimensions: 52 x 39 x 15 mm / Weight: 50 g
- ▶ Battery: LR44

Cat.No.	Description	Price
053304	Indoor/outdoor thermometer module	N/A -
095304B	LR44 button battery (2 units)	N/A -

Indoor thermometer module



- ▶ Temperature: -5 to + 50 °C
- ▶ Unit: °C / °F
- ▶ Stand or wall-mounted
- ▶ Dimensions: 68 x 45 x 14 mm / Weight: 30 g

Cat.No.	Description	Price
053305	Indoor thermometer module	N/A -

Indoor/outdoor thermometer



- ▶ Temperature: - 30 to + 50 °C
- ▶ Resolution 0.1° / Accuracy ± 1 °C
- ▶ Minimum and maximum values
- ▶ Stand mounting / On window (adhesive)
- ▶ Dimensions: 72 x 90 x 13 mm
- ▶ Weight: 65 g
- ▶ Battery: CR2032

Cat.No.	Description	Price
053294	Indoor/outdoor thermometer	N/A -
045322	Battery CR2032	N/A -

Thermometer hygrometer USB key



Recording frequency and time settings
 Immediate download by plugging the module into a PC's USB port and running the software (supplied in English).
 Data in the form of graphs, tables or text can be printed, saved and exported to other applications.

- ▶ Temp: -40° to +70 °C / Resol. 0.1 °C / Acc. ± 1 °C
- ▶ Hygro.: 0 to 100% RH / Resol. 0.1% / Acc. ± 2% RH
- ▶ Lithium battery (Cat. No. 098440) / Battery life 3 years and 6 months continuous
- ▶ Analysis and evaluation software (in English)
- ▶ USB interface for direct PC playback
- ▶ Dew point measurement
- ▶ Intervals: 1 sec to 24 h
- ▶ 32 000 memories
- ▶ Max / Min / LED alarms
- ▶ Waterproof IP54
- ▶ D: 130x30x25 mm / 120 g

Cat.No.	Description	Price
095378	Thermometer hygrometer USB key	N/A -
098440	Replacement battery for thermometer 095378	N/A -

Wireless Transmitter Receiver



- ▶ Bluetooth™ data transfer to a Bluetooth™ device
- ▶ Transmission distance: 10 m
- ▶ Delivered with software for data processing and storage (for Android smartphone or Windows PC)
- ▶ 10 hours continuous operation
- ▶ Automatic sleep mode after 15 minutes of inactivity

Cat.No.	Description	Price
098466	Wireless receiver transmitter for thermometer 095378	N/A -



REC	ALM	
●	○	Recording
○	●	Humidity alarm threshold exceeded
○	●	Temperature alarm threshold exceeded

Base

ANALYSIS AND MEASUREMENTS

THERMOMETERS

Electronic thermometer

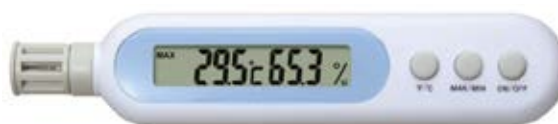


Electronic thermometer with sound, memory, immersible, controlled and certified.

- Digital display, temperature measurement between 32 °C and 43 °C
- Waterproof, can be disinfected by immersion
- In a transparent hard case

Cat. No.	Description	Units/box	Price/box
794060	Electronic thermometer	1	N/A -
794061	Thermosept thermometer case, non-lubricated	1000	N/A -
794062	Thermosept thermometer case, lubricated	1000	N/A -

Pocket Thermometer / Hygrometer



- Temperature: 0 to +50 °C / ± 1 °C
- Hygrometry: 20 to 100 %RH / ± 3
- RH Resolution: 1/10 e
- Max / Min function
- Protective case
- Dimensions: 165 x 37 x 18 mm / 55 g
- Battery: CR2032

Cat.No.	Description	Price
053270B	Thermometer - hygrometer pen	N/A -
045322	Battery CR2032	N/A -

Refrigerator and freezer thermometer

- -40 °C to +70 °C / resolution: 0.1 °C
- With timer to count down the overrun time
- Max/Min Data hold
- 1 audible alarm + 1 light alarm
- Dual sensor, dual display, dual alarm
- Programmable alarms

Cat. No.	Description	Price
022553	Refrigerator and freezer thermometer	N/A -



Thermometer for refrigerator or freezer

- Acoustic and light alarm for exceeding minimum / maximum temperatures
- -9.5° to -23 °C for freezer and 2° to 8 °C for refrigerator
- Dual display: indoor/ambient
- Display in °C or °F
- Supplied with AAA battery
- Velcro fastening
- Dimensions: 136 x 19 x 28 mm; probe: 5 (∅) x 17 (mm); cable length: 0.9 m

Cat. No.	Description	Price
320531	Refrigerator and freezer thermometer	N/A -



Module thermometer for refrigerator

- Refrigerator probe thermometer
- With programmable temperature alarm
- Battery LR44
- Suction cup mounting

Thermometry	-50 to +150 °C	
	Resolution	0.1 °C
	Accuracy	1 °C
3 sec. alarm	Max/Min	
Probe	∅ 3 x 60 mm / cable 3 m	
Dim. W x D x H (mm)	67 x 35 mm	
Weight (g)	70	
Cat. No.	095409B	
Price	N/A -	



Folding probe thermometer



- ▶ Special food industry, HACCP and EN 13485 compliant
- ▶ IP65 waterproof enclosure (water jet)
- ▶ Stainless steel penetration probe, rotatable by 180°
- ▶ Automatic switch-off
- ▶ Zero point calibration function

Temperature	- 40 °C to + 150 °C
Accuracy	+/- 0.5 °C from - 20 °C to + 140 °C, +/- 1 °C from - 40 °C to - 20 °C
Resolution	0.1 °C
Dimensions (mm)	116 x 38 x 20
Weight (g)	40
Probe dimensions Ø x W (mm)	3.2 - 2.6 x 60
Batteries	CR 2032
Cat. No.	253749
Price	N/A -

Accessory

Cat.No.	Description	Price
045322	Battery for Thermometer 253749	N/A -

Checktemp and Checktemp 1 precision thermometers



- ▶ Measurement accuracy ± 0.2 °C from -20 to 90 °C
- ▶ CAL CHECK function at start-up to check the internal calibration and measurement accuracy of the instrument
- ▶ EN 13485 compliant
- ▶ Compact design case
- ▶ Silicone cable for prolonged use in negative cold and high temperatures (052028B)
- ▶ 106 mm fixed probe in food grade AISI 316 stainless steel
- ▶ Can be used in an atmosphere of -20 to 50 °C
- ▶ Water resistance IP 65
- ▶ HACCP applications
- ▶ Auto power off (after 8 or 60 minutes or disabled)
- ▶ Delivered with battery and holder

Model	Checktemp	Checktemp 1
Range	-50 to 150 °C	-50 to 150 °C
Accuracy	± 0.2 °C (-20 to 90 °C) / ± 0.5 °C (outside)	
Probe	L = 106 mm, \varnothing 3.6 mm	L = 97.3 mm, \varnothing 3.5 mm with 1 m cable
Battery	1 x 3V type CR 2032 Li-ion	3 x 1.5 V AAA
Dimensions / Weight	70.4 x 50.5 x 22 mm / 51.3 g	107 x 59 x 16.5 mm / 80 g

Cat.No.	Description	Price
052028B	Checktemp pocket thermometer with fixed probe	N/A -
052026B	Checktemp 1 pocket thermometer with probe and 1 m cable	N/A -

Temperature indicator, magnetic fixing



- ▶ For continuous temperature monitoring of cold rooms, freezers and refrigerators
- ▶ Stainless steel food grade thermistor probe and 1 metre silicone cable for easy cleaning
- ▶ Cal-Check function to check the accuracy of the instrument
- ▶ Error message "ERR" to indicate the need to replace the battery
- ▶ Easy installation by magnet
- ▶ Large LCD display

Range	-50 to +150 °C
Resolution	0.1 °C
Accuracy	+/- 0.3 °C (-20 to +90 °C); +/- 0.5 (outside)
Calibration	Factory only
Calibration test	By switch on the front panel
Probe	40 x 5 mm stainless steel with 1 mm food grade cable
Battery	1 x 1.5 V AAA / 3 year life span
Environment	0 to +50 °C; RH 95%
Dim. / Weight	93 x 39 x 31 mm / 60 g
Cat. No.	052393
Price	N/A -

Checktemp 4® Precision Thermometer



- ▶ Equipped with a folding probe
- ▶ Designed for laboratory and food industry applications
- ▶ Switching on by opening the probe and activating the automatic calibration status test
- ▶ Supplied with 1.5 V AA battery

Range	-50 to +220 °C (environment 0 to 50 °C / max. humidity 95 %)
Resolution	0.1 °C (-50 to 199.9 °C); 1 °C (200 to 220 °C)
Accuracy	+/- 0.3 °C +/- 1 character (-20 to 90 °C); +/- 1 % F.S. +/- 1 character (external)
Probe	Stainless steel, with penetration tip, \varnothing x W: 3.5 x 117 mm
Dim. / Weight	165 x 50 x 20 mm / 100 g
Cat. No.	052388B
Price	N/A -

ANALYSIS AND MEASUREMENTS

HI 93510 Waterproof Thermistor thermometer

- Compact thermometer,
- Waterproof
- Linearisation of measurements by microprocessor
- Interchangeable probe
- 2-level display
- Ideal for remote temperature measurement

Range	-50 to 150 °C
Accuracy	± 0.4 °C (-20 to 80 °C); ± 0.7 % F.S. outside, valid for one year, excluding probe error
Probe	HI 762BL interchangeable stainless steel probe with 1m cable (supplied)
Power supply	3 x 1.5 V AA / approx. 2000 hours of continuous operation Auto-off after 8 minutes.
Environment	-10 to 50 °C – RH 95 %
Dimensions	150 x 80 x 36 mm
Weight	235 g



Warranty: 3 years

Supplied complete with:

- a wrist strap;
- a HI 762 BL temperature probe;
- 1 meter cable;
- 3 batteries 1.5 V AA;
- Instructions for use.

Cat.No.	Description	Price
052036	Thermistor thermometer	N/A -
052038	Test key -18 °C ± 0.4 °C	N/A -
052039	Test key 0 °C ± 0.4 °C	N/A -
052040	Test key 70 °C ± 0.4 °C	N/A -
052041	Shockproof case, blue	N/A -
052042	Shockproof case, orange	N/A -

HANNA Thermometers

- Ergonomic design
- Waterproof
- Calcheck function: self-monitoring of the status of the electronics and the measuring accuracy of the instrument
- Stability indicator
- Stainless steel temperature probe with 1 m cable
- Model with or without fixed probe



	HI 93797	HI 93799	HI 93800	HI 93771
Range	-50.0 to 1350 °C	-50.0 to 400 °C	-50.0 to 400 °C	-50.0 to 150.0 °C
Resolution	0.1 °C (from -50.0 to 199.9 °C)	0.1 °C (from -50.0 to 199.9 °C)	0.1 °C (from -50.0 to 199.9 °C)	0.1 °C
Accuracy	± 2 °C (-50 °C to 1350 °C)	± 1 °C (-50 °C to 100.0 °C) ± 2 °C (remaining range)	± 0.5 °C (-50 °C to 100.0 °C) ± 1 °C (remaining range)	± 0.4 °C (-10 °C to 80.0 °C) with probe FC762 ± 0.8 °C (remaining range)
Probe	Immersion temperature probe with 1 m cable	Immersion temperature probe with 1 m cable	Fixed immersion temperature sensor with 1 m cable	523771: Immersion temperature sensor with 1 m cable
Standard	HACCP	EN13485; HACCP	EN13485; HACCP	EN13485; HACCP
IP	IP65	IP65	IP65	IP65
Calcheck function	√	√	√	√
Auto shutdown function	After 8 minutes; 60 minutes or off	After 8 minutes; 60 minutes or off	After 8 minutes; 60 minutes or off	After 8 minutes; 60 minutes or off
Batteries	3 x 1.5V AAA batteries	3 x 1.5V AAA batteries	3 x 1.5V AAA batteries	3 x 1.5V AAA batteries
Dimensions	140 x 57 x 28 mm	140 x 57 x 28 mm	140 x 57 x 28 mm	140 x 57 x 28 mm
Weight	178 g	178 g	178 g	178 g
Cat. No.	523797	523799	523800	054476B
Price	N/A -	N/A -	N/A -	N/A -

Accessories

Temperature sensor	523801	523804	-	523771
Price	N/A -	N/A -	-	N/A -
Shockproof case	523803	523803	523772	523772
Price	-	N/A -	N/A -	N/A -
Test key - 18 °C	-	-	-	052038
Price	-	-	-	N/A -
Test key 0 °C	-	-	-	052039
Price	-	-	-	N/A -
Test key 70 °C	-	-	-	052040
Price	-	-	-	N/A -

Type K Thermocouple thermometer



Compact, waterproof thermometer for high temperature measurements up to 1350 °C.

- ▶ **Versatile:** measuring range from -50 to 1350 °C and a wide range of conventional and special probes (optional)
- ▶ **2-level display:** current value and minimum and maximum values of a series of measurements
- ▶ **HOLD function,** to freeze a stable value on the screen
- ▶ **Ergonomic waterproof case**
- ▶ **Thermometer delivered without probe**

Warranty: 3 years

Supplied with:

- 3 batteries 1.5 V AA;
- a box set.

Range	-50.0 to 199.9 °C; 200 to 1350 °C
Resolution	0.1 °C (until 199.9 °C); 1 °C (beyond)
Accuracy	± 0.2 % full scale (for 1 year, excluding sensor error)
Probe	HI 766 series, with thermocouple (optional)
Batteries / Lifetime	3 x 1.5 V AA / approx. 1600 h continuous use

Cat. No.	Description	Price
052441	Type K Thermocouple thermometer	N/A -
524017	Flexible waterproof probe 1 m	N/A -
052054	Penetration probe	N/A -
052055	General purpose probe with 1 metre cable	N/A -
052041	Shockproof case, blue	N/A -

HI 144 Temperature logger



- ▶ **Robust and compact**
- ▶ **Easy to use**
- ▶ **Supplied with wall mounting**
- ▶ **Battery charge indicator**

Range	-30.0 to 70.0 °C
Accuracy	± 0.4 °C (-20 °C to 60 °C); ± 0.6 °C (outside)
Calibration	At the factory
Memory	8000 max values
Intervals	Between 1 minute and 24 hours
Power supply	Battery CR2032
Battery life	About 2 years
Protection index	IP65
Dimensions (mm)	60 x 37 x 17

Cat. No.	Description	Price
524000	HI 144 recorder with wall mounting and lock	N/A -
524002	HI 144 recorder supplied with interface, software, wall mounting and lock	N/A -

Accessory

Cat. No.	Description	Price
524001	Interface for HI 144	N/A -

HI 148 Temperature logger

- ▶ **Robust and compact**
- ▶ **Easy to use**
- ▶ **Supplied with wall mounting, USB cable**
- ▶ **software to be downloaded**



Model	HI 148-1	HI 148-2	HI 148-3	HI 148-4
Sensor	1 internal	1 external (1 m cable)	1 internal and 1 external (1 m cable)	2 external (1 m cable)
Range (internal sensor)	-20.0 to 60.0 °C	-	-20.0 to 60.0 °C	-
Accuracy (internal sensor)	± 0.4 °C (0 °C to 60 °C) ± 0.5 °C (outside)	-	± 0.4 °C (0 °C to 60 °C) ± 0.5 °C (outside)	-
Range (external sensor)	-	-	-40.0 to 125 °C	-
Accuracy (external sensor)	-	-	± 0.4 °C (0 °C to 70 °C) ± 0.5 °C (-40 to 0 °C and 70.0 to 100.0 °C) ± 1 °C (beyond 100 °C)	-
Memory	16000 max values		8000 per channel	
Intervals	Between 1 second and 24 hours			
Power supply	3 AAA Battery			
Battery life	About 2 years			
Protection index	IP67			
Dimensions (mm)	107 x 59 x 17			
Weight (g)	130			
Cat. No.	524003	524004	524005	524006
Price	N/A -	N/A -	N/A -	N/A -

Testo Thermometers

Testo 104 waterproof thermometer with folding probe

- Robust, easy to handle, ideal for core and field measurements
- Waterproof (IP 65)
- Alarm and Auto-hold function
- Display of min/max values for recall of measured values
- Supplied with battery, operating instructions and certificate of conformity

Testo 106 Thermometer with fixed probe

- Robust, small, easy to handle, ideal for core and field measurements
- Alarm and Auto-hold function
- Version with TopSafe (protective case) certified according to EN 13485
- Supplied with battery, instructions for use

Testo 108 Waterproof thermometer

- Good accuracy
- Waterproof (IP 67)
- Supplied with battery, operating instructions and certificate of conformity

Testo 110 and 720 accuracy thermometers

- Very good accuracy
- Wide choice of probes for different applications
- TopSafe (shock and dust protection case)
- Printing possible (optional printer)
- Supplied with battery, operating instructions and certificate of conformity

Testo 440 Reference Thermometer

- Easy to use
- Accepts wireless probes, Bluetooth connection
- Large graphic display
- With data memory
- With probe 157127
- Measuring range: -80 to +300 °C
- Precision: ± 0.05 °C (0 to +100 °C)
 ± 0.3 °C (-80 to -40.001 °C)
 $\pm 0.1 + 0.05$ % measured value (-40 to -0.001 °C)
 $\pm 0.05 + 0.05$ % measured value (100.001 to +300 °C)

Model	104	106	108	110	720	440
						
Range	-50 to +250 °C	-50 to +275 °C	-50 to +300 °C	-50 to +150 °C	-100 to +800 °C	Depending on the probe
Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C	0.1 °C	0.1 / 0.001 °C (only with sensor 157127)
Accuracy*	± 1.0 °C (-50 to -30.1 °C) / ± 0.5 °C (-30 to +99.9 °C) / ± 1 % v.m. (+100 to +250 °C)	± 1 °C (-50 to -30.1 °C) / ± 0.5 °C (-30 to +99.9 °C) / ± 1 % v.m. (+100.1 to +275 °C)	± 0.5 °C (-30 to +70 °C) / ± 0.5 °C ± 0.5 % v.m. (remaining extent)	± 0.2 °C (-20 to 80 °C) / ± 0.3 °C (-50 to -20.1 °C) and (80.1 to 150 °C)	± 0.2 °C (-100 to +199.9 °C) / ± 0.2 % v.m. (+200 to +800 °C)	Depending on the probe
Probe**	Fixed NTC probe, foldable	Fixed probe	Thermocouple type T (included)	NTC	NTC or Pt100	Digital or NTC or Thermocouple
Power supply	AAA batteries	Battery CR 2032 3V (x2)	Battery AAA (x3)	9V battery	9V battery	3 AA batteries (LR6 Lithium)
Environment	-20 to +60 °C	-20 to +50 °C	-20 to +60 °C	-20 to +50 °C	-20 to +50 °C	-20 to +50 °C
Dimensions	265 x 48 x 19 mm (with unfolded probe)	215 x 34 x 19 mm	144 x 60 x 24.5 mm	182 x 64 x 40 mm	182 x 64 x 40 mm	154 x 65 x 32 mm
Weight	165 g	80 g	NC	171 g	171 g	250 g
Cat. No.	057445	057400	057446	057402	057403	157126
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -
Cat.No. with TopSafe (protective case)	-	057401	-	-	-	-
Price	-	N/A -	-	-	-	-
Cat. No. with highly accurate probe and COFRAC calibration -18/0/+100 °C	-	-	-	-	-	157128
Price	-	-	-	-	-	N/A -

* Also depends on the probe used

** Probe to be ordered separately, see next page for available probes.

Accessories

Cat. No.	Description	Price
057417	Infrared wireless printer for Testo 110, 720	N/A -
057418	Thermal paper roll for printer 057417 (6 units)	N/A -
057419	TopSafe (protective case) for Testo 110 et 720	N/A -
057585	Carrying case	N/A -
057427	USB interface for Testo 174 T and 174 H	N/A -
057422	Silicone paste for better conductivity 14 g	N/A -
057804	Replacement thermocouple T probe for Testo 108	N/A -

5-point calibration for probe 057415 with COFRAC certificate possible, consult us

Testo Temperature Recorders

Testo 174 T and 174 H Temperature recorders






- Compact and economical
- Programmable measurement rate (from 1 min. to 24 h)
- Memory 16000 values
- Testo 174H: temperature and hygrometry
- Supplied with battery, operating instructions and certificate of conformity

Testo 175 T2 Temperature logger

- Programmable measurement rate (from 10 s to 24 h)
- Memory: 1 000 000 values
- Supplied with battery, operating instructions and certificate of conformity

Testo 176 T2 Temperature logger

- Programmable measurement rate (from 1 s to 24 h)
- Up to 2 Pt100 external sensors
- Memory: 2 000 000 values
- Supplied with battery, operating instructions and certificate of conformity

Model	174T	174H	175T2	176T2
				
Range	-30 to +70 °C	-20 to +70 °C (internal) / 0 to 100% RH	-35 to +55 °C (internal) / -40 to +120 °C (external)	-100 to +400 °C
Resolution	0.1 °C	0.1 °C / 0.1 % RH	0.1 °C	0.01 °C
Accuracy*	±0.5 °C (-30 to +70 °C)	±0.5 °C (-20 to +70 °C) / ±3 % RH (2 to 98% RH)	±0.5 °C (-35 to +55 °C) internal / ±0.3 °C (-40 to +120 °C) external	± 0.2 °C (-50 to +200 °C) / ± 0.3 °C (200.1 to +400 °C)
Internal probe	NTC (included)	NTC (included) + %RH (included)	1x NTC (included)	2 x Pt100 (to be ordered separately)
External probe**			1 x NTC (to be ordered separately)	2 x Pt100 (to be ordered separately)
Power supply	2 x CR 2032 Lithium batteries	3 x AAA LR03 Lithium batteries	3 x AAA LR03 batteries	1 Lithium battery (TLH-5903)
Memorization	up to 16000 values	up to 16000 values	up to 1 million values	up to 2 million values
Memory interval	Customizable from 1 minute to 24 hours	Customizable from 1 minute to 24 hours	Customizable from 10 seconds to 24 hours	Customizable from 1 second to 24 hours
Environment	-30 to +70 °C	-20 to +70 °C	-35 to +55 °C	-35 to +70 °C
Dimensions	60 x 38 x 18.5 mm	60 x 38 x 18.5 mm	89 x 53 x 27 mm	103 x 63 x 33 mm
Weight	90 g	90 g	450 g	630 g
Cat. No.	057406	057407	057408	057409
Price	N/A -	N/A -	N/A -	N/A -

* also depends on the probe used ** probe to be ordered separately, see below for the different probes available

Set Testo 174 T and 174 H

The Testo sets include the logger, USB interface for programming and transfer of values to a PC, wall mounting, batteries and certificate of conformity.

Cat. No.	Description	Price
057425	Set Testo 174 T	N/A -
057426	Set Testo 174 H	N/A -

Accessories

Cat. No.	Description	Price
057427	USB interface for Testo 174 T and 174 H	N/A -
057428	USB Cable for Testo Recorders ¹	N/A -
057429	SD Card for Testo Recorders ²	N/A -

1. The USB cable is required for programming the device.
2. The SD card is used to retrieve recorded values but is not an extension of the device's memory

Probes - Wide range of probes available, please consult us

Precision probes for Testo Pt100 recorders and thermometers

Cat.No	Description	Range	Accuracy	Price
057414	Pt100 sensor for aggressive media with interchangeable glass body	-50 to +400 °C	± (0.15 + 0.002*T (K)) °C up to 300 °C then ± (0.3 + 0.005*T (K)) °C	N/A -
057415	Precision waterproof Pt100 sensor for immersion/permeation	-40 to +300 °C	± 0.05 °C (+0.01 to +100 °C) ± 0.05 °C + 0.05% v.m. (remaining extent)	N/A -
057424	Replacement glass tube for probe 057414	-	-	N/A -



Probes for Testo thermometers and recorders type NTC

Cat.No	Description	Range	Accuracy	Price
057410	Waterproof NTC contact probe for flat surfaces	-50 to +150 °C	± 0.5% v.m. (+100 to +150 °C)	N/A -
057411	Waterproof NTC probe for immersion/permeation	-50 to +150 °C	± 0.2 °C (-25 to +74.9 °C)	N/A -
057412	Flat cable immersion NTC sensor*	-50 to +150 °C	0.4 °C (remaining range)	N/A -

* Handy for measurements in a freezer without a cable duct



Testo 184 pocket recorders

- Pocket recorders for monitoring temperature and/or humidity and shocks during transport.
- USB interface: no need for software, simply connect the recorder and set up directly from the PDF file in the memory
- Delivered with calibration certificate according to ISO 17025 except 184 H1 and 184 G1
- Protection class IP67 except 184 H1 and 184 G1 (IP30)

Model	184 T1	184 T2	184 T3	184 T4	184 H1	184 G1
						
Measure type	Temperature	Temperature	Temperature	Temperature	Temperature / Humidity	Temperature / Humidity / shocks
Replaceable batteries	No	No	Yes	Yes	Yes	Yes
Dimensions (mm)	33 x 9 x 74	44 x 12 x 97	44 x 12 x 97	44 x 12 x 97	44 x 12 x 97	44 x 12 x 97
Autonomy	90 days	150 days	500 days (at +25 °C, 15 min rate)	100 days (at -80 °C, 15 min rate)	500 days (at +25 °C, 15 min rate)	120 days (at +25 °C, 15 min rate)
Measuring range	-35 to +70 °C	-35 to +70 °C	-35 to +70 °C	-80 to +70 °C	-20 à +70 °C / 0 to 100 % HR	-20 à +70 °C / 0 to 100 % HR
Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C	0.1 °C / 0.1 % HR	0.1 °C / 0.1 % HR / 0.1 g
Accuracy	+/- 0.5 °C	+/- 0.5 °C	+/- 0.5 °C	+/- 0.8 °C (-80 to -35.1 °C) +/- 0.5 °C (-35 to +70 °C)	± 0.8 °C (-20 to 0 °C) ± 0.5 °C (-0 to +70 °C) ± 1.8 % HR +3% of the measured value at +25 °C (5 at 80 % HR) ± 0.03 % HR/K (0 at +60 °C)	± 0.8 °C (-20 to 0 °C) ± 0.5 °C (-0 to +70 °C) ± 1.8 % HR +3% of the measured value at +25 °C (5 at 80 % HR) ± 0.03 % HR/K (0 at +60 °C) ± 0.1 g + 5 % of the measured value
Permissible temperature	-55 to +70 °C	-55 to +70 °C	-55 to +70 °C	-80 to +70 °C	-55 to +70 °C	-55 to +70 °C
Measurement rate	1 min to 24 h	1 min to 24 h	1 min to 24 h	1 min to 24 h	1 min to 24 h	1 min to 24 h
Memory	16000 values	40000 values	40000 values	40000 values	64000 values	64000 values + 1000 (shocks)
Display and alarms	LEDs	LEDs & display	LEDs & display	LEDs	LEDs & display	LEDs & display
Cat. No.	057563	057564	057565	057566	057567	057568
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

EBRO 310 Temperature logger

Internal probe	-30 °C to +75 °C
Accuracy	+/-0.2 (-30 to +30 °C) / +/- 0.5 °C remaining range
Resolution	0.1 °C
Memory	120000 values
Rate	1 min to 24 h
Dimensions	80 x 34 x 14 mm
Weight	Approx. 35 g
Protection	IP65
Cat. No.	498752
Price	N/A -

- Stand-alone recorder for monitoring the temperature of equipment or during transport
- With factory calibration certificate

* The TPX 250 probe has a replaceable battery, ideal for monitoring a -80 °C freezer
 **Probe for two-channel module, to be ordered in pairs

Accessories

Cat. No.	Description	Price
498755	Dual channel module	N/A -
498769	Wall mounting	N/A -

Probes

Model	TPX 220	TPX 250 *	TPX 310-P1 **
Measurement range	-200 °C to +200 °C	-85 °C to +50 °C	-200 °C to +200 °C
Accuracy	±2.0 °C (-200 °C to -100 °C) ±1.0 °C (-100 °C to -20 °C) ±0.2 °C (-20 °C to +60 °C) ±0.5 °C (+60 °C to +200 °C)	±1.0 °C (-85 °C to 20 °C) ±0.2 °C (-20 °C to +50 °C)	±2.0 °C (-200 °C to -100 °C) ±1.0 °C (-100 °C to -20 °C) ±0.2 °C (-20 °C to +60 °C) ±0.5 °C (+60 °C to +200 °C)
Probe	5 x 45 mm stainless steel		
L. of the cable	1 m	1 m	3 m
Cat. No.	498753	498754	498756B
Price	N/A -	N/A -	N/A -



TFX410 Thermometers



- Removable probe
- Model with or without cable
- Various probe lengths
- Easy to use
- Temperature range: -50 to +300 °C
- Accuracy: ± 0.3 °C
- Resolution: 0.1 °C
- IP 67
- Dimensions W x thickness x H (mm): 54 x 22 x 109
- Weight (g): 90

Model	TFX410												TFX410-1				
Probe	Pt1000	TPX 400-40	TPX 400-150	TPX 440	TPX 100-20	TPX 100-30	TPX 100-40	TPX 200-20	TPX 200-30	TPX 200-40	Without	TPX 400	TPX 100	TPX 200	TPX 300		
Cable	Silicone	•	•	•	•	-	-	-	-	-	-	•	-	-	-		
	Teflon	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cable length (m)	0.6	0.4	1.5	1.5	-	-	-	-	-	-	-	0.6	-	-	-		
Probe Ø x L (mm)	3 x 120	3 x 120	3 x 120	3 x 120	-	-	-	3 x 200	3 x 300	3 x 400	-	3 x 120	-	3 x 120	-		
➤ contact	-	-	-	-	3 x 200	3 x 300	3 x 400	-	-	-	-	-	3 x 120	-	-		
➤ protected by glass	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8 x 190		
Cat. No.	780245	799693	799588	498734	799694	799695	799696	799697	799698	799699	780339	498735	799700	799701	799702		
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -		

Probes

Cat. No.	Description	Price
799715	Temperature probe TFX400-40	N/A -
780340	Temperature sensor TFX400-150	N/A -
799716	Temperature sensor TFX440	N/A -
799717	Temperature probe TPX100-20	N/A -
799718	Temperature probe TPX100-30	N/A -
799719	Temperature probe TPX100-40	N/A -
799720	Temperature probe TPX200-20	N/A -
799721	Temperature probe TPX200-30	N/A -
799722	Temperature probe TPX200-40	N/A -
799722	Temperature probe TPX400	N/A -

Cat. No.	Description	Price
799714	Temperature probe TPX100	N/A -
799723	Temperature probe TPX200	N/A -
799724	Temperature probe TPX300	N/A -

Accessories

Cat. No.	Description	Price
174030	Red protective case for TFX	N/A -
799713	Kit including spare battery and O-ring	N/A -

EBI 11 Recorders

- Temperature or pressure monitoring of an autoclave
- Temperature range: -30 to +150 °C
- Waterproof
- Various probe lengths available
- Works with Winlog software



Model	EBI 11-T230	EBI 11-T231	EBI 11-T233	EBI 11-T240	EBI 11-P100
Temperature range	-30 to +150 °C				-
Pressure range	-	-	-	-	1 mbar to 10000 mbar
Accuracy	± 0.1 °C				± 15 mbar (1 mbar to 4000 mbar)
Resolution	0.01 °C				± 20 mbar (4001 mbar to 10000 mbar)
Memory	15000				
Sensor	Pt1000				-
Recording interval	from 1 second to 24 hours				
IP	IP68				
Dimensions Ø x H without probe (mm)	16.5 x 24				16.5 x 37
Probe Ø x L (mm)	3 x 20	3 x 50	3 x 100	1.5 x 240	-
Weight (g)	45				
Cat. No.	780553	780555	780556	780554	780557
Price	N/A -	N/A -	N/A -	N/A -	N/A -

Software

	Winlog light	Winlog pro	Winlog med	Winlog validation
Statistical calculation	•	•	•	•
Fo calculation	•	•	•	•
Adjustment of probes	•	•	•	•
21 CFR part 11	•	•	•	•
Report creation (xls or pdf)	•	•	•	•
Delivered with interface	*	•	•	•

Cat.No	Description	Price
780609	Winlog.light software delivered without interface *	N/A -
780546	Winlog.pro software delivered with IF200 interface for 4 recorders	N/A -
780544	Winlog.med software delivered with IF100 interface for 2 recorders	N/A -
780545	Winlog.validation software delivered with IF200 interface for 4 recorders	N/A -
780600	IF100 interface for 2 recorders	N/A -

* IF100 interface to be added, Cat. No. 780600

TESTO 191 high temperature recorders

- For monitoring pasteurisation / sterilisation / freeze-drying
- 5 recorder models
- Very easy battery change, no tools required
- Intuitive software
- 8 recorders can be configured at the same time
- Calculation of Fo



Model	Testo 191-T1	Testo 191-T2	Testo 191-T3	Testo 191-T4	Testo 191-P1
Measured quantity	Temperature (Pt1000)				Pressure
Measuring range	-50 to +140 °C				1 mbar to 4 bar absolute
Accuracy	± 0.2 °C (-50 to -40 °C)				± 20 mbar
	± 0.1 °C (-40 to +140 °C)				-
Resolution	0.01 °C				1 mbar
Memory	60000 values		30000 per channel		60000 values
Measurement rate	1 second to 24 hours				
Dimensions					
Recorder with large battery	20 x 40 mm		20 x 45 mm	20 x 53 mm	22 x 64 mm
Recorder with small battery	20 x 59 mm		20 x 63 mm	20 x 72 mm	22 x 83 mm
Probe tube	3 x 25 mm	3 x 115 mm	1.5 x 775 mm		-
Probe tube tip	-		3 x 25 mm		-
Large battery					
Duration	2500 operating hours (10-second measurement rate at +121 °C)				
Range of use	-50 to +140 °C				
Small battery					
Duration	250 operating hours (10-second measurement rate at +121 °C)				
Range of use	-20 to +140 °C				
Cat. No. with large battery	157082	157083	157084	157085	157086
Price	N/A -	N/A -	N/A -	N/A -	N/A -

Accessories

➤ Configuration case with USB cable

Cat. No.	Description	Price
157093	Configuration / storage case for recorders	N/A -

➤ Comsoft Professional Software

Cat. No.	Description	Price
157096	Comsoft Professional Software	N/A -

➤ Various accessories

Cat. No.	Description	Units/box	Price/box
157089	Bracket for fixing recorders	5	N/A -
157090	Mounting for Testo 191T4 within the programming case	10	N/A -
157091	Mounting for Testo 191T1/T2/T3 within the configuration case	10	N/A -
157092	Block for surface measurement in a freeze dryer	1	N/A -
157095	Mounting for Testo 191 for can and bottle	1	N/A -



➤ Batteries

Cat. No.	Description	Price
157087	Small spare battery for Testo 191	N/A -
157088	Large spare battery for Testo 191	N/A -

Remote temperature and humidity recorders



- ▶ Wireless temperature or temperature/hygrometry recorders
- ▶ Date and time recording, very short reaction time thanks to the small size of the device
- ▶ Factory calibrated sensors
- ▶ Stores up to 3 years and 185 000 measurements (including lithium battery)
- ▶ Data provided in tabular or graphical form
- ▶ Unique serial number with QR code
- ▶ Encrypted data transmitted via secure 868 MHz high frequency radio
- ▶ Dimensions: 85 x 55 x 5 mm (credit card)
- ▶ Weight: 30 g
- ▶ IP 67 sealing
- ▶ HACCP/EN12830 compliant
- ▶ Recorders supplied with wall mounting
- ▶ Wireless Hub receiver included in initial packs, allows remote monitoring via internet and addition of alarms via email or SMS
- ▶ Adding optional recorders (recorders only)
- ▶ Range 700 m, extendable to 1400 m with optional repeater

Starter packs

Cat. No.	Description	Price
253409	176BL recorder and HUB receiver pack	N/A -
253412	177BL recorder and HUB receiver pack	N/A -
253755	178BL recorder "cold chain" and HUB receiver pack	N/A -
253756	179BL recorder "hot chain" and HUB receiver pack	N/A -

Recorders only

Cat. No.	Description	Range of use	Accuracy	Sampling interval	Price
098452	Wireless Temperature Logger 176BL	- 40 °C to +70 °C	Between 0 °C and 30 °C: ±0.2 °C, or ±0.5 °C	10 minutes	N/A -
253411	Wireless Temperature and Humidity Logger 177BL	Temp: - 40 °C to +70 °C Humidity: 0% to 100% RH	Temp: from 0 °C to 30 °C: ±0.2 °C, or ±0.5 °C Humidity: from 20 % to 80 %: ±5 % HR	15 minutes	N/A -
253753	178BL "cold chain" temperature recorder with 1 m cable probe	- 40 °C to +60 °C	Between 0 °C and 30 °C: ±0.2 °C, or ±0.5 °C	10 minutes	N/A -
253754	179BL "hot chain" temperature recorder with 1 m cable probe	+20 °C to +120 °C	Between 0 °C and 30 °C: ±0.2 °C, or ±0.5 °C	10 minutes	N/A -

Option

Cat. No.	Description	Price
098454	Long distance repeater (1400 m)	N/A -

Temperature/Humidity Logger - 8 channels 3039T



- ▶ Up to 8 optional transmitters
- ▶ Memory for 50 000 date values
- ▶ Programmable intervals: 15 seconds to 24 hours
- ▶ Dew point function
- ▶ Max / min / alarm function
- ▶ Radio controlled clock/calendar
- ▶ USB cable/Office compatible
- ▶ Stand or wall mounting

Temperature	0 to 50 °C (station) / -30 to 50 °C (transmitter)
Resolution	0.1 °C
Accuracy	+/- 1 °C
Hygrometry	1% to 99%RH
Resolution	1 %
Accuracy	+/- 3 %RH
Power supply	3 x AA
Dimensions (mm)	137 x 98 x 26
Weight (g)	430

Cat. No.	Description	Price
098418	Temperature / humidity recorder - 8 channels	N/A -
098419	Wireless temperature and humidity transmitter	N/A -
098420	Wireless temperature transmitter with wired sensor	N/A -

EBRO Wireless Recorders

- Radio transmission
- For monitoring transport, storage
- Alarm overflow monitoring by SMS or email



Model	EBI 25-T	EBI 25-TE	EBI 25-TX	EBI 25-TH
Sensor	Internal	External	External	External
Measuring range	-30.0 to +60 °C	-40 °C to +85 °C	-199.9 to + 199.9 °C	-30.0 to +60.0 °C and 0.0 to 100.0% RH
Accuracy	± 0.5 °C (-20 °C to +40 °C) ± 0.8 °C (remaining range)	± 0.5 °C (-20 °C...+40 °C) ± 0.8 °C (-30 °C to -20 °C; +40 °C to +60 °C) ± 1.5 °C (-40 °C to -30 °C; +60 °C to +85 °C)	± 0.4 °C (-20 °C...+60 °C) ± 0.5 °C (-100 to -20 °C; +60 °C to +199.9 °C) ± 2 °C (-200 to -100 °C)	± 0.5 °C (-20 °C to +40 °C) ± 0.8 °C (remaining range) ± 3 % RH (10 to 90 % RH)
Memory capacity	288 measured values (per channel)			
Probe	NTC	NTC	Pt 1000	NTC / Capacitive
Probe Dimensions (mm)	-	Ø 3.8	Ø x L: 5 x 50 (with 3 m PTFE cable)	-
Measurement interval	1 minute to 24 hours			
Radio frequency (MHz)	868			
protection class	IP67	IP67	IP67	IP20
Battery	3.6 V lithium (user replaceable)			
Battery life	About 2 years			
Dimensions (mm)	95 x 48 x 27	95 x 48 x 27	135 x 48 x 27	124 x 28 x 27
Weight (g)	65	65	117	65
Cat. No.	780530	780531	780532	780533
Price	N/A -	N/A -	N/A -	N/A -






Accessories

Cat. No.	Description	Price
780534	IF400 EBI interface with antenna	N/A -
780536	Wall mounting for EBI 25	N/A -
780535	Visual alarm for EBI 25	N/A -
780537	Winlog Web software	N/A -
780538	Winlog Wave software (PC)	N/A -

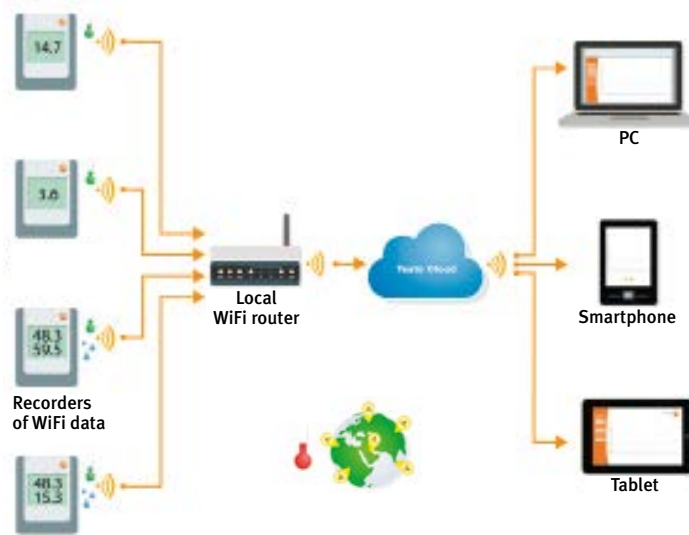
WiFi Testo Saveris 2 temperature monitoring systems

Controls the ambient climate conditions very simply wherever you are.

- **Plug & play: no software installation**
- **Reliable alarms when thresholds are exceeded**
- **Uses existing WiFi network (no additional components required)**
- **Access to data from any connected device**
- **Free hosting and data access in the Testo Cloud**
- **Data export in PDF or XLS format**

Model	Saveris 2-T1 Probe	Saveris 2-T2 Probe	Saveris 2-T3 Probe	Saveris 2-H1 Probe	Saveris 2-H2 Probe
					
Measured quantity	Temperature	Temperature	Temperature	Temperature / humidity	Temperature / humidity
Sensor	NTC (internal)	2 x NTC (external)	2 x Thermocouple (external) K or T	NTC /Capacitive (internal)	NTC /Capacitive (external)
Measuring range	- 30 to + 50 °C	- 50 to + 150 °C	Thermocouple K: - 195 to + 1350 °C T: - 200 to + 400 °C	- 30 to + 50 °C 0 to 100 % HR	NTC: see Humidity probes: 0 to 100% HR
Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C / 0.1 % HR	0.1 °C / 0.1 % HR
Accuracy (case)	± 0.5 °C	± 0.5 °C	± (0.5 + 0.5% measured value) °C	± 0.5 °C ± 2% HR	See probes
Operating temperature:	- 30 to + 50 °C				
Protection index	IP65	IP65	IP54	IP30	IP54
Standard	EN 12830	EN 12830	-	-	-
Memory	10 000 values / channel				
Measurement rate	adjustable from 5 sec to 24 h				
Transfer rate	adjustable from 1 min to 24 h				
Display	LCD Display 1 line		LCD Display 2 lines		
Power supply	4 x AA AlMn batteries (optional power supply)				
Autonomy	Approx. 2 years (at +25 °C with 15 min. measurement and recording rates)				
Dimensions H x Wl x D (mm)	95 x 75 x 30.5				
Weight (g)	240				
Cat. No.	057591B	057592B	057593B	057594B	057595B
Price	N/A -	N/A -	N/A -	N/A -	N/A -

Licence model	Basic	Advance
Measurement rate	15 minutes (cannot be changed)	From 1 minute to 24 hours
Communication rate	From 1 hour to 24 hours	From 1 minute to 24 hours
Data storage	Up to 3 months (loop memory)	Up to 24 months (loop memory)
Reports	Manual (pdf and csv)	Manual and automatic (pdf and csv)
Visualisation of curves	Channel by channel	Up to 10 channels simultaneously
Number of users per account	1 maximum	10 maximum
Number of recorders per account	Unlimited	-
Use of measurement point groups and zones	No	Yes
Alarms via email	Unlimited	-
Alarms via sms	No	25 SMS per recorder per year
Technical alarms	Low battery	Low battery, power failure and loss of WiFi communication
No. of alarm receivers	Limited to 3 via email	Unlimited via email Limited to 10 via SMS
Price	Free of charge	On request



5-channel stand-alone recording thermometer type K

- 4 core temperatures (K-type), 1 surface temperature (infrared)
- Stand-alone recorder
- 18 000 memories
- 5 displays (T1.... T4, IR)
- Remote infrared probe
- Max, Min, Hold, Moy, ΔT°, SCAN
- Backlighting / Auto Off
- Supplied in a case with K + IR probes
- PC connection
- Software + USB cable included

Type K	- 200 °C to + 1372 °C
Accuracy	± 2 °C
Infrared	- 30 °C to + 550 °C
Accuracy	± 5 °C
Ratio	8:1
Sampling rate	1 sec - 24 h
Dimensions	255 x 75 x 50 mm
Weight	350 g
Battery	6F22

Cat. No.	Description	Price
095389	5-channel stand-alone recording thermometer type K	N/A -



Anemometer / hygrometer / light meter / pocket thermometer

Measure	Ranges	Resolution	Accuracy	
Anemometer	km/h	1.4 to 108	≤ 20 m/s: ± 3% FS > 20 m/s: ± 4% FS	
	m/s	0.4 to 30		
	ft/min	80 to 5970		
	MPH	0.9 to 67		
	Knots	0.8 to 58.3		
Hygrometer	% RH	10 to 95 %	0.10 %	< 70% RH: ± 4% RH ≥ 70% RH: + (4% rdg + 1.2% RH)
Luxmeter	Lux	0 to 2200	1	± 5% vm + 8 dgt
		1800 to 20000	10	
	Ft-cd	0 to 204	0.1	
Temperature	°C	0 to + 50	0.1	± 1.2 °C
	°F	32 to 122	0.1	± 2.5 °F
Temperature with type K probe (optional)	°C	- 100 to + 1300	0.1	± (1 % vm + 1 °C)
	°F	- 148 to 2375	0.1	± (1 % vm + 2 °F)

Cat. No.	Description	Price
098499	Anemometer / hygrometer / light meter / pocket thermometer	N/A -

- Dual LCD display
- Temperature - 100 to + 1300 °C
- Memory max/min
- Optional K-probe
- Dimensions: 150 x 60 x 23 mm
- Weight: 160 g
- 9V battery
- Electrical specification (23 °C ± 5 °C)



PH indicator paper



- ▶ **PH indicator paper**
- ▶ **Wide range, in strips or rolls**
- ▶ **Incrementation by 0.2 or 0.3 pH**
- ▶ **For rapid testing of clear, cloudy or coloured solutions**
- ▶ **Store in a dry and dark place**

Cat. No.	Description	PH increment	Packaging unit	Price/sales unit
049333	pH Paper 1 - 11	1	Roll 6 m	N/A -
049334	pH Paper 3.9 - 6.9	0.3	6 m	N/A -
049335	pH Paper 4.9 - 7.9	0.3	6 m	N/A -
049336	pH Paper 6.9 - 9.9	0.3	6 m	N/A -
049337	pH Paper 0 - 14	0.3	6 m	N/A -
049300	pH Paper 1.8 - 3.2	0.2 pH	200 strips	N/A -
049301	pH Paper 3 - 4.4	0.2 pH	200	N/A -
049302	pH Paper 3.9 - 5.3	0.2 pH	200	N/A -
049303	pH Paper 5.2 - 6.6	0.2 pH	200	N/A -
049304	pH Paper 6 - 7.4	0.2 pH	200	N/A -
049305	pH Paper 6.6 - 8 yellow - orange	0.2 pH	200	N/A -

Cat. No.	Description	PH increment	Packaging unit	Price/sales unit
049306	pH Paper 5.6 - 7	0.2 pH	200	N/A -
049307	pH Paper 6.6 - 8 vert - bleu	0.2 pH	200	N/A -
049308	pH Paper 7.3 - 8.7	0.2 pH	200	N/A -
049309	pH Paper 8.6 - 10	0.2 pH	200	N/A -
049310	pH Paper 0.4 - 1.4	0.3 pH	200	N/A -
049311	pH Paper 1 - 2.8	0.3 pH	200	N/A -
049312	pH Paper 1.6 - 3.7	0.3 pH	200	N/A -
049313	pH Paper 2.6 - 4.1	0.3 pH	200	N/A -
049314	pH Paper 3.9 - 5.4	0.3 pH	200	N/A -
049315	pH Paper 4.3 - 6.1	0.3 pH	200	N/A -
049316	pH Paper 5.2 - 6.7	0.3 pH	200	N/A -
049317	pH Paper 6 - 7.5	0.3 pH	200	N/A -
049318	pH Paper 6.6 - 8.1	0.3 pH	200	N/A -
049319	pH Paper 7.5 - 8.7	0.3 pH	200	N/A -
049320	pH Paper 8.2 - 9.7	0.3 pH	200	N/A -
049321	pH Paper 8.8 - 10	0.3 pH	200	N/A -
049322	pH Paper 9.4 - 10.3	0.3 pH	200	N/A -
049323	pH Paper 10.1 - 11.3	0.3 pH	200	N/A -
049325	pH Paper 9 - 14	1 pH	200	N/A -
049326	pH Paper 10.5 - 13	0.5 pH	200	N/A -
049327	pH Paper 11.5 - 14	1 pH	200	N/A -
049328	pH Paper 2.6 - 4.7	0.3 pH	200	N/A -
049329	pH Paper 3.9 - 6	0.3 pH	200	N/A -
049330	pH Paper 6 - 8.1	0.3 pH	200	N/A -
049331	pH Paper 6.6 - 8.7	0.3 pH	200	N/A -
049332	pH Paper 11 - 13.1	0.3 pH	200	N/A -

Whatman™ pH Paper



- **CF Type strips:** each plastic strip has 4 different segments of coloured test paper. The combination of colours allows for visual identification.
- **CS Type strips:** each strip has a central indicator segment and 8 or more other coloured segments identified by their corresponding pH value. The pH can then be read directly by comparing the test strip with the coloured bars. Ideal for testing on coloured solutions that may alter readings.
- **TC Type dispenser:** each strip has 3 separate indicator areas. The unique combination of colour change for each test is then compared to a reference card printed on the dispenser to allow quick and accurate reading.
- **SR Type dispenser:** a full range of pH papers in dispenser format.

Strips

Cat.No	Type	Description	pH Range	PH gradation	W x L (mm)	Units/box	Price/box
036536	CF	Mass staining	0 - 14	1	6 x 80	100	N/A -
036537	CF	Mass staining	4.5 - 10.0	0.5	6 x 80	100	N/A -
036538	CS	Full comparison	1.0 - 12.0	1	11 x 100	200	N/A -
036539	CS	Full comparison	1.8 - 3.8	0.2 - 0.3	11 x 100	200	N/A -
036540	CS	Full comparison	3.8 - 5.5	0.2 - 0.3	11 x 100	200	N/A -
036541	CS	Full comparison	5.2 - 6.8	0.2 - 0.3	11 x 100	200	N/A -
036542	CS	Full comparison	6.0 - 8.1	0.3	11 x 100	200	N/A -
036543	CS	Full comparison	8.0 - 9.7	0.2 - 0.3	11 x 100	200	N/A -

Distributors

Cat.No	Type	Description	pH Range	PH gradation	W x L (mm x m)	Price
036544	TC	Three Colours	1.0 - 11.0	1	10 x 5	N/A -
036545	SR	Full spectrum standard	1.0 - 14.0	1.0 - 2.0	7 x 5	N/A -
036546	SR	Reduced spectrum	0.5 - 5.5	0.5 - 1.0	7 x 5	N/A -
036547	SR	Reduced spectrum	4.0 - 7.0	0.5	7 x 5	N/A -
036548	SR	Reduced spectrum	6.0 - 8.0	0.5	7 x 5	N/A -
036549	SR	Reduced spectrum	8.0 - 10.0	0.5	7 x 5	N/A -

PH paper in rolls or strips



5 meter roll

Cat. No.	Description	Price/the 5 m roll
074043	Scale from 1 to 14 graduations of 1 pH	N/A -
074161	Scale from 1 to 14 graduations of 1 pH	N/A -

Strips

Cat.No.	pH Range	Price/ 10 units booklets of 20
175176	1 - 14	N/A -
175175	5 - 9	N/A -

ClearLine® pH paper

On a roll

Cat.No.	Description	Dimensions L x W	Units/box	Price/box
442401	PH paper 1 - 14 + reel	7 mm x 5 m	1 roll + reel	N/A -
442402	PH paper refill 1 - 14	7 mm x 5 m	3 roll	N/A -

In strips

- Non-migrant identification area
- 4 coloured areas on each strip

Cat.No.	Description	Units/box	Price/box
442400	pH paper 0 - 14	100 strips	N/A -
442403	pH Paper 4 - 10	100 strips	N/A -

ClearLine®



Mettler Toledo FIVE EASY and FIVE EASY PLUS benchtop pH meters

Model	FIVE EASY F20 pH / mV bench meter and kit	FIVE EASY PLUS FP20 pH / mV bench meter and kit
Measuring range	0.00 to 14.00 pH	- 2.00 to 16.00 pH
Temperature range	0 to 100 °C	- 5 to 105 °C
Resolution	0.01 pH	0.01/0.1 pH
Accuracy	± 0.01 pH	± 0.3 °C
Temperature compensation	Manual and automatic	
Calibration	Max 3 points	Max 5 points
Connectors	Analogue output	RS 232, USB
Power supply	100-240V / 50-60Hz, 12 V DC	
Size/weight	227 x 147 x 70 mm / 630 g	

- Delivered with a user manual and a power supply
- Kits supplied with 2 bags of buffers (pH 4.01 and 7.00), electrode and electrode holder



Cat.No.	Description	Price
031306	FIVE EASY F20 pH meter, F20-Meter series*	N/A -
031307	FIVE EASY F20 pH meter Kit, F20-Standard series	N/A -
031308	FIVE EASY PLUS FP20 pH meter, FP20-Meter series*	N/A -
031309	FIVE EASY PLUS FP20 pH meter Kit, FP20-Standard series	N/A -
031310	FIVE EASY PLUS FP20 pH meter Kit, FP20-Bio series	N/A -
031311	FP20 FIVE EASY PLUS FP20 pH meter Kit, FP20-Micro series	N/A -
031312	FIVE EASY PLUS FP20 pH meter Kit, FP20-Tris series	N/A -

* delivered without electrode

Mettler Toledo FIVE EASY and FIVE EASY PLUS benchtop conductivity meters

Model	FIVE EASY F30 conductivity meter and kit	FIVE EASY PLUS FP30 conductivity meter and kit
Measuring range	0.01 µS/cm to 200 mS/cm (conductivity)	0.01 µS/cm to 500 mS/cm (conductivity)
Temperature range	0 to 100 °C	- 5 to 105 °C
Resolution	Automatic scale (conductivity and TDS)	
Accuracy	± 0.5 % measured value	
Temperature compensation	Linear: 0.00 %/ °C to 10 %/ °C Reference temperature 20 or 25 °C	
Calibration	1 point	
Connectors	-	RS 232, USB
Power supply	100-240V / 50-60Hz, 12 V DC	
Size/weight	227 x 147 x 70 mm / 630 g	

- Delivered with a user manual and a power supply
- Kits supplied with one electrode and two buffer bags 1413 µS/cm and 13.88 mS/cm and one electrode holder



Cat.No.	Description	Price
031313	FIVE EASY F30 Conductivity Meter, F30-Meter series	N/A -
031314	FIVE EASY F30 Conductivity Meter Kit, F30-Meter series with electrode LE 703	N/A -
031315	FIVE EASY PLUS F30 Conductivity Meter, FP30-Meter series	N/A -
031316	FIVE EASY PLUS F30 Conductivity Meter Kit, F30-Meter series with electrode LE 703	N/A -

TIP



See page 362 for buffer solutions and standard conductivity solutions

Mettler Toledo SevenCompact™ pH S210 benchtop meter



- ▶ **Fast and accurate measurements**
- ▶ **Intuitive operation**
- ▶ **Attractive and clear colour display**
- ▶ **Numerous peripheral options**
- ▶ **BPL Compliant**
- ▶ **Supplied with electrode holder, protective cover, operating instructions, guide, declaration of conformity and test certificate**
- ▶ **Kit supplied with electrode and buffer bags for pH 4.01 / 7.00 / 9.21 and 10**

Model	SevenCompact™ pH S210 pH meter
Ranges of measurement	- 2.000 to 20.000 pH - 2000 to 2000 mV - 5 °C to 130 °C
Resolution	0.001/0.01/0.1 pH 0.1/1 mV 0.1 °C
Accuracy	± 0.002 pH ± 0.2 mV ± 0.1 °C
Sensor inputs	BNC (impedance > 3 x 10 ¹² Ω)
Interfaces	RS232, USB-A, USA-B
Power supply	9-12 V CC/10 W
Size/weight	204 x 174 x 74 mm / 890 g

Accessories

Cat.No.	Description	Price
031208	uMix™ magnetic stirrer	N/A -
031093	RS-P25 printer including cable	N/A -
031369	EasyDirect™ pH Software License	N/A -
031142	USB cable 1.8 m A-B	N/A -

TIP



See page 362 for buffer solutions and standard conductivity solutions

Cat.No.	Description	Price
031229	pH meter SevenCompact™ pH S210-Basic	N/A -
031230	pH meter Kit SevenCompact™ pH S210-Kit with electrode Inlab Expert Pro-ISM	N/A -
031231	pH meter Kit SevenCompact™ pH S210-Bio with electrode Inlab® routine Pro-ISM	N/A -
031232	pH meter Kit SevenCompact™ pH S210-U With electrode Inlab® Versatile Pro	N/A -

SevenCompact™ Duo S213 benchtop pH/ conductivity meter



PH and conductivity measurement.

- ▶ **Fast and accurate measurements**
- ▶ **Easy to use**
- ▶ **Colour screen**
- ▶ **LPG compliant**
- ▶ **IQ/OQ capability**
- ▶ **USP/EP compliant for pure and ultra pure water**
- ▶ **ABNT NBR 10547:2006 compliant for bioethanol**
- ▶ **ICUMSA GS2/3-17 and GS 1/3/4/7/8-13 compliant for sugar analysis**
- ▶ **IP54**
- ▶ **Supplied with electrode holder, protective cover, operating instructions, guide, declaration of conformity and test certificate**
- ▶ **Kits supplied with pH electrode and conductivity probe, pH buffer sachets (4.01 / 7.00 / 9.21 and 10) and two conductivity standards (1413 µS/cm and 12.88 mS/cm)**

Memory	2000 measurements
Connectivity (pH; temperature conductivity; digital)	BNC; Cinch/RCA (NTC 30 kΩ or Pt1000); Mini-Din; Mini-LTW
Dimensions/weight	204 x 174 x 74 mm / 890 g

Cat.No.	Description	Price
031366	SevenCompact™ Duo S213 pH/ conductivity meter	N/A -
031367	SevenCompact™ Duo S213 pH/ conductivity meter Kit with Inlab® Expert Pro ISM pH electrode, Inlab® 731 conductivity probe	N/A -
031368	SevenCompact™ Duo S213 pH/ conductivity meter Kit with Inlab® Pure Pro ISM pH electrode, Inlab® 741 conductivity probe	N/A -

Accessories

Cat.No.	Description	Price
031369	EasyDirect™ pH Software License	N/A -
031142	USB cable for EasyDirect™ pH software	N/A -
031202	USB printer - P25 supplied complete	N/A -
031208	µMix magnetic stirrer	N/A -

pH	Measuring range	-2.000....20.000
	Resolution	0.001
		0.01
		0.1
Accuracy	±0.002	
mV	Measuring range	-2000.0/+2000.0
	Resolution	0.1
		1
		±0.1 mV (-1000....1000)
Accuracy	±0.2 mV (reste of range)	
Conductivity	Measuring range	0.001 µS/cm....1000 mS/cm
	Resolution	0.001....1
	Accuracy	±0.5%
Temperature	Measuring range	-30.0....+130 °C
	Resolution	0.1
	Accuracy	±0.1%
Calibration	pH	5 points max (8 pre-defined buffer values or 1 customizable buffer)
	Conductivity	1 point (13 pre-defined standard values or 1 customisable standard)
	Icon electrode status	Indicates the quality of the last calibration

Mettler Toledo SevenCompact™ benchtop pH meter

- > Versatile and universal
- > Precise
- > Easy to use for maximum productivity
- > Supplied with electrode holder, protective cover, operating instructions, quick guide, declaration of conformity and test certificate
- > Kits supplied with an electrode, a guide to pH measurements and two bags of pH buffers (4.01 / 7.00 / 9.21 and 10.00)



Model	pH meter S220 SevenCompact™
Measuring range	- 2.000 to 20.000 pH - 2000 to 2000 mV - 5 °C to 130 °C
Resolution	0.001/0.01/0.1 pH 0.1/1 mV - 5 °C to 130 °C
Accuracy	± 0.002 pH ± 0.2 mV ± 0.1 °C
Sensor inputs	BNC (impedance > 3 x 10E + 12Ω)
Interfaces	RS232, USB-A, USA-B
Power supply	9-12 V CC/10 W
Size/weight	204 x 174 x 74 mm / 890 g

Cat.No	Description	Price
031126	SevenCompact™ S220-Basic pH meter	N/A -
031127	SevenCompact™ S220 pH meter Kit with InLab® Expert Pro-ISM	N/A -
031683	S220 umix Kit with electrode InLab® expert Pro-ISM and mix shaker	N/A -
031128	SevenCompact™ S220-Bio pH meter Kit with InLab® Routine Pro-ISM electrode	N/A -
031129	SevenCompact™ S220, university pH meter Kit with InLab® Versatile Pro electrode	N/A -
031684	S220 micro Kit with InLab® ultra micro electrode	N/A -

Accessories

Cat.No	Description	Price
031056	ATC temperature probe (NTC 30 kOhm)	N/A -
031369	EasyDirect™ pH Software License	N/A -
031142	USB cable 1.8 m A-B	N/A -
031093	RS-P25 printer cable included	N/A -
031032	RS-P26 Printer	N/A -
031148	uPlace™: Electrode holder (included in the standard delivery)	N/A -
031149	Protective cover (included in the standard delivery)	N/A -

ANALYSIS AND MEASUREMENTS

Mettler Toledo SevenCompact™ benchtop conductivity meter

- > Versatile and universal
- > Precise
- > Easy to use for maximum productivity
- > Supplied with electrode holder, protective cover, operating instructions, quick guide, declaration of conformity and test certificate
- > Kits supplied with a probe and a guide to conductivity measurements



Model	S230 SevenCompact™ conductivity meter
Conductivity	0.001 µS/cm to 1000 ms/cm 0.001 to 1 ± 0.5 %
Temperature	- 5 °C to 130 °C 0.1 °C ± 0.1 %
TDS	0.00 mg/l to 1000 g/l 0.01 to 1 ± 0.5 %
Spec. resistance	0.00 to 100.00 MOhm cm
Salinity	0.00 to 80.00 psu
Sensor inputs	Mini-DIN
Interfaces	RS232, USB-A, USA-B
Power supply	9-12 V CC/10 W
Size/weight	204 x 174 x 74 mm / 890 g

Cat.No	Description	Price
031130	SevenCompact™ S230-Basic Conductivity meter	N/A -
031131	SevenCompact™ S230 Conductimeter Kit with InLab® 731-ISM and two calibration bags for 1413 µS/cm and 12.88 mS/cm	N/A -
031132	SevenCompact™ S230-USP/EP Conductivity meter with InLab® 741-ISM	N/A -



See page 362 for buffer solutions and standard conductivity solutions

Accessories

Cat.No	Description	Price
031056	ATC temperature probe (NTC 30 kOhm)	N/A -
031369	EasyDirect™ pH Software License	N/A -
031142	USB cable 1.8 m A-B	N/A -
031093	RS-P25 printer cable included	N/A -
031032	RS-P26 Printer	N/A -
031148	uPlace™: Electrode holder (included in the standard delivery)	N/A -
031149	Protective cover (included in the standard delivery)	N/A -

Mettler Toledo FIVEGO portable pH meter



- ▶ Intuitive operation
- ▶ Ergonomic
- ▶ IP67 protection
- ▶ Memory 200 values
- ▶ Comes with wrist strap, user manual, electrode holder and batteries

Mettler Toledo FIVEGO portable conductivity meter



- ▶ Intuitive operation
- ▶ Ergonomic
- ▶ IP67 protection
- ▶ Memory 200 values
- ▶ Comes with wrist strap, user manual, electrode holder and batteries



See page 362 for buffer solutions and standard conductivity solutions

Model	F2 FIVEGO pH / mV bench meter and kit
Measuring range	0.00 to 14.00 pH - 1999 to + 1999 mV
Temperature range	0 to 100 °C
Resolution	0.01 pH 1 mV 0.1 °C
Accuracy	± 0.01 pH ± 1 mV ± 0.5 °C
Temperature compensation	Manual and automatic
Calibration	Max 3 points
Memory	200 measurements
IP	IP67
Power supply	4 x 1.5 V AAA LR03 or 4 x 1.2 V AAA NiMH HR03 > 200 hours
Size/weight	188 x 77 x 33 mm / 260 g

Model	F3 FIVEGO conductivity meter and kit
Measuring range	0.00 µS/cm to 200 mS/cm (conductivity) 0.01 mg/l to 200 g/l (TDS)
Temperature range	0 to 100 °C
Resolution	Auto scale. 0.1 °C
Accuracy	± 0.5 % measured value ± 0.5 °C
Temperature compensation	Linear: 0.00 %/°C to 10 %/°C Reference temperature 20 or 25 °C
Calibration	1 point
Memory	200 measurements
IP	IP67
Power supply	4 x 1.5 V AAA LR03 or 4 x 1.2 V AAA NiMH HR03 > 200 hours
Size/weight	188 x 77 x 33 mm / 260 g

Cat.No.	Description	Price
031317	F2 FIVEGO pH meter, F2-Meter series	N/A -
031318	F2 FIVEGO pH meter Kit, F2-Standard series with LE438 IP67 electrode and 2 buffer bags pH 4.01 and 7.00	N/A -
031320	F2 FIVEGO pH meter Kit, F2-Food series with LE427 IP67 electrode, carrying case and 2 buffer bags pH 4.01 and 7.00	N/A -
031319	F2 FIVEGO pH meter Kit, F2-Field series with LE438 IP67 electrode, carrying case and 2 buffer bags pH 4.01 and 7.00	N/A -

Cat.No.	Description	Price
031321	F3 FIVEGO Conductivity Meter F3-Meter series	N/A -
031322	F3 FIVEGO Conductivity Meter Kit, F3-Standard series with electrode LE703 IP67 and 2 bags of buffer 1413 µS/cm and 12.88 mS/cm	N/A -
031323	F3 FIVEGO conductimeter Kit, F3-Field series with LE703 IP67 electrode, carrying case and 2 buffer bags 1413 µS/cm and 12.88 mS/cm	N/A -

Mettler LE electrode

▶ Economic model



Cat.No	Description	Price
031055	LE redox electrode with BNC connection	N/A -

Model	LE407	LE409	LE410	LE420	LE422	LE427	LE427-IP67	LE438	LE438-IP67
Measuring range	0-14	0-14	0-14	0-14	0-14	1-11	1-11	0-14	0-14
Temperature range	0 to 80 °C	0 to 80 °C	0 to 80 °C	0 to 80 °C	0 to 80 °C	0 to 50°C	0 to 50°C	0 to 80 °C	0 to 80 °C
Connector	BNC	BNC/ RCA (Cinch)	BNC/ RCA (Cinch)	BNC	BNC	BNC	BNC (IP67)	BNC/ RCA (Cinch)	BNC/RCA (Cinch)(IP67)
Junction	Polyester	Ceramic	Ceramic	Removable PTFE	Ceramic	Ceramic	Ceramic	Polyester	Polyester
Body material	POM	Glass	Glass	Glass	Glass	Glass	Glass	POM	POM
Electrode length (mm)	120	120	120	120	90	17	17	120	120
Diameter (mm)	12	12	12	12	4-3	6	6	12	12
Integrated temperature probe	No	Yes	Yes	No	No	No	No	Yes	Yes
Cable (m)	1 m	1 m	1 m	1 m	1 m	1 m	2 m	1 m	2 m
Reference system	Ag/AgCl	Ag/AgCl	Ag/AgCl	Ag/AgCl	Ag/AgCl	Ag/AgCl	Ag/AgCl	Ag/AgCl	Ag/AgCl
Electrolyte	Gel	KCl AgCl saturated 3 mol/l	KCl AgCl saturated 3 mol/l	KCl 3 mol/l	Gel	Gel	Gel	Gel	Gel
Membrane	Universal	For high temperature and high pH			Universal	For low temperature and low ionic concentrations		Universal	Universal
Membrane resistance (25 °C)	< 250 MΩ	< 600 MΩ	< 600 MΩ	< 600 MΩ	< 250 MΩ	< 250 MΩ	< 250 MΩ	< 250 MΩ	< 250 MΩ
Cat. No.	031049	031051	031304	031052	031211	031053	031328	031075	031327
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

Mettler Toledo Seven2Go™ Routine portable pH, conductivity and DO meter

- Fast, quality data in the field
- Simplified menu, automatic probe recognition, calibration reminder system
- User-friendly one-handed operation, easy-to-reach buttons
- IP67 protection against dust and water: reliable data, even in difficult environments
- Supplied with electrode clip, instructions for use, test report, declaration of conformity and batteries
- The pH kits contain an InLab® sensor and bags of buffer pH (4.01 / 7.00 / 9.21 / 10.00)
- Conductivity meter kits contain a sensor and bags of 143 µS/cm and 12.88 mS/cm standard solution
- DO kits contain an InLab® sensor and zero oxygen tablets



Model S3

Model	S2 Seven2Go™ Routine pH meter
Ranges of measurement	- 2.00 to 20.00 pH - 1999 to 1999 mV - 5.0 to 105.0 °C
Resolution	0.01 / 0.1 1 0.1 °C
Accuracy	+/- 0.01 pH +/- 1 mV +/- 0.5 °C
Calibration points	5
Set of predefined pH buffers	4

Model	S3 Seven2Go™ Routine Conductivity meter
Conductivity	0.010 µS/cm to 500 mS/cm 0.001 ± 0.5 %
Temperature	- 5 °C to 105 °C 0.1 °C ± 0.2 %
TDS compatible	Yes
Calibration points	1

Model	DO S4 Seven2Go™ Routine
Dissolved oxygen	0.00 to 99.9 mg/l 0.01 / ± 0.2 mg/l
Temperature	0.0 to 60.0 °C
Calibration points	2
Automatic/manual pressure compensation	Yes

Accessories

CatNo.	Description	Price
031256	UGo Carrying Case	N/A -
031257	Base stand for Seven2Go instrument, for better stability on flat surfaces	N/A -
031258	Seven2Go electrode clip and electrode clip covers (4 units)	N/A -
031259	Seven2Go wrist strap	N/A -
031276	Micro USB to standard USB cable for Seven2Go for PC connectivity or power	N/A -
031277	DC wall plug adapter for Seven2Go USB cable, for DC power (Pro instruments only)	N/A -

Cat.No.	Description	Price
031242	S2-Meter portable pH meter	N/A -
031243	S2-Standard Portable pH Meter Kit with InLab® Expert Go-ISM- IP67 sensor and buffer bags for pH 4.01 / 7.00 / 9.21 and 10.00	N/A -
031244	S2-Field portable pH meter kit with InLab® Expert Go-ISM- IP67 sensor, calibration bottle and carrying case uGo™	N/A -
031245	S2-Food portable pH meter kit with InLab® Solids Pro-IP67 sensor, calibration bottle and uGo™ carrying case	N/A -
031246	S2-Light Portable pH Meter Kit with InLab® Versatile Prosensor	N/A -
031247	Portable conductivity meter S3-Meter	N/A -
031248	S3-Standard Portable conductivity meter Kit with InLab® 738-ISM sensor	N/A -
031249	S3-Field Portable conductivity meter Kit with InLab® 738-ISM sensor, calibration bottle and carrying case uGo™	N/A -
031250	S3-Bioethanol Portable conductivity meter Kit with InLab® 725 sensor, a conductivity standard 84 µS/cm and a carrying case uGo™	N/A -
031251	DO portable S4-Meter	N/A -
031252	S4-Standard portable DO Kit with InLab® 605-ISM sensor	N/A -
031253	S4-Field portable DO Kit with InLab 605-ISM sensor, calibration bottle and carrying case uGo™	N/A -

TIP



See page 362 for buffer solutions and standard conductivity solutions







ANALYSIS AND MEASUREMENTS

Mettler Toledo InLab Electrodes

Rapid pH measurement

Common characteristics mol/L

- **Electrode type:** Combined pH
- **Reference system:** ARGENTHAL™ with Ag⁺ ion barrier
- **Reference electrolyte:** KCl at 3 mol/l
- **Storage:** InLab® storage solution (Cat.number 031341)

						
InLab	Routine	Pro Routine*	Pro-ISM routine	Science	Pro-ISM science	Versatile Pro
PH range	0 to 14	0 to 14	0 to 14	0 to 12	0 to 12	0 to 14
Temperature range	0 to 100 °C	0 to 100 °C	0 to 100 °C	0 to 100 °C	0 to 100 °C	0 to 100 °C
Temperature sensor	-	NTC 30 kΩ	NTC 30 kΩ	-	NTC 30 kΩ	NTC 30 kΩ
Type of membrane glass	HA	HA	HA	A41		U
Membrane resistance (25 °C)	< 600 MΩ	< 600 MΩ	< 600 MΩ	< 600 MΩ	< 600 MΩ	< 250 MΩ
Junction type	Ceramic	Ceramic	Ceramic	Glass body	Glass body	Ceramic
Electrolytic bridge	-	-	-	-	3 mol/L KCl	-
Connection cable	S7	Multipin	Multipin	S7	MultiPin	1.2 m BNC/RCA cable
Shaft material	Glass	Glass	Glass	Glass	Glass	Polysulfone
Shaft length (mm)	120	120	120	120	170	120
Shaft diameter (mm)	12	13	14	16	17	18
Cat. No.	031041	031071*	031139	031048	031135	031233
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

* The InLab® Routine Pro electrode is also available with a Pt1000 probe

Maintenance-free pH measurement

Common characteristics mol/L

- **Electrode type:** Combined pH
- **Storage:** InLab® storage solution (Cat.number 031341)

					
InLab	Expert	Expert Pro-ISM**	Power	Power Pro-ISM**	Easy
PH range	0 to 14	0 to 14	0 to 12	0 to 12	0 to 14
Temperature range	0 to 100 °C	0 to 100 °C	0 to 130 °C	0 to 130 °C	0 to 80 °C
Temperature sensor	-	NTC 30 kΩ	-	NTC 30 kΩ	-
Type of membrane glass	U	U	A41	A41	U
Membrane resistance (25 °C)	< 250 MΩ	< 250 MΩ	< 600 MΩ	< 600 MΩ	< 250 MΩ
Junction type	Open	Open	Ceramic	Ceramic	Ceramic
Reference electrolyte	XEROLYT polymer	XEROLYT polymer	DPA Gel	DPA Gel	Gel
Connection cable	S7	1.2 m cable, BNC/RCA (Cinch)	S7	MultiPin	S7
Shaft material	PEEK	PEEK	Glass	Glass	Polysulfone
Shaft length (mm)	120	120	120	170	120
Shaft diameter (mm)	12	13	15	16	17
Cat. No.	031047	031133	031039	031173	031199
Price	N/A -	N/A -	N/A -	N/A -	N/A -

** available in non-ISM version

HA: glass with high alkalinity level and low alkalinity error level for high pH values and temperatures.
 U: Universal glass for standard applications and small membranes.
 A41: High strength glass, particularly resistant to aggressive chemicals, suitable for high temperatures.

LoT: low-temperature glass with low resistance. Suitable for samples with low temperature and ionic concentration
 HF: hydrofluoric acid resistant glass, for samples containing hydrofluoric acid (up to 1 g/l)
 ISM: Each ISM electrode offers data security and ease of handling.
 PEEK: Extremely robust shaft.



Mettler Toledo InLab electrodes (continued)

Small volume pH measurement

➤ Common characteristics mol/L

➤ Electrode type: Combined pH

➤ Storage: InLab® storage solution (Cat.number 031341)

					
InLab	Ultra-Micro-ISM	Micro	Micro Pro-ISM	Semi-Micro	Flex-Micro
PH range	1 to 11	0 to 14	0 to 14	0 to 12	0 to 14
Temperature range	0 to 80 °C	0 to 80 °C	0 to 100 °C	1 to 100 °C	0 to 80 °C
Temperature sensor	-	-	NTC 30 kΩ	-	-
Type of membrane glass	LoT	U	U	A41	U
Membrane resistance (25 °C)	< 700 MΩ	< 1 000 MΩ	< 300 MΩ	< 600 MΩ	< 600 MΩ
Junction type	Ceramic	Ceramic	Ceramic	Open Jolction	Porous PTFE
Reference system	ARGENTHAL™	ARGENTHAL™	ARGENTHAL™	ARGENTHAL™	ARGENTHAL™
Reference electrolyte	FRISCOLYT-B	KCl at 3 mol/L	KCl at 3 mol/L	XEROLYT EXTRA	Gel
Connection cable	MultiPin	S7	MultiPin	S7	1 m cable; BNC
Shaft material	Glass	Glass	Glass	Glass	Epoxy
Shaft length (mm)	40	60	130	100	180
Shaft diameter (mm)	3	3	5	6	6
Minimum sample volume (µl)	15	45	100	100	500
Cat. No.	031356	031045	031172	031046	031198
Price	N/A -	N/A -	N/A -	N/A -	N/A -


Combined glass redox electrode

➤ Common features

➤ Storage: InLab® storage solution (Cat.number 031341)

➤ Reference system: ARGENTHAL™ with Ag⁺ ion barrier





➤ Cable and connection: S7

			
InLab	Redox	Redox Micro	Redox Ag
Temperature range	0 to 100 °C	0 to 100 °C	0 to 100 °C
Junction type	Ceramic	Ceramic	Ceramic
Stem length	120	100	120
ø of rod (mm)	12	6	12
Metals	Platinum ring	Platinum ring	Platinum ring
Ref. electrolyte	KCl at 3 mol/L	KCl at 3 mol/L	KNO ₃ at 3 mol/L
Storage	KCl at 3 mol/L	KCl at 3 mol/L	KNO ₃ at 1 mol/L
Cat. No.	031054	031107	031187
Price	N/A -	N/A -	N/A -

Conductivity probes

➤ Common feature

➤ Storage: dry

				
InLab	731-ISM	741-ISM	710	751-4 mm
Measuring range	0.01 to 1000 mS/cm	0.001 to 500 µS/cm	0.01 to 500 mS/cm	0.01 to 100 mS/cm
Temperature range	0 to 100 °C	0 to 100 °C	0 to 100 °C	0 to 100 °C
Temperature sensor	NTC 30 kΩ	NTC 30 kΩ	NTC 30 kΩ	NTC 30 kΩ
Connection cable	1.2 m Mini-DIN cable	1.2 m Mini-DIN cable	1.2 m Mini-DIN cable	1.2 m Mini-DIN cable
Electrode material	Epoxy	Stainless steel	Glass	Glass
Electrode length (mm)	120	120	120	120
Shaft diameter (mm)	12	12	12	4
Cell constant	0.57 cm-1	0.105 cm-1	0.80 cm-1	1 cm-1
Cell type	4-pole graphite	2-pole steel	4-pole platinum	2-pole platinum
Cat. No.	031136	031138	031278	031214
Price	N/A -	N/A -	N/A -	N/A -

Mettler Toledo Solution for the calibration and maintenance of electrodes and probes

pH electrodes calibration Buffers



pH	Volume 250 ml	Price	30 bags of 20 ml	Price
2	031235	N/A -	-	-
4.01	031217	N/A -	031197	N/A -
7	031218	N/A -	031193	N/A -
9.21	031219	N/A -	031194	N/A -
10.01	031220	N/A -	031234	N/A -
11	031236	N/A -	-	-

pH	Rainbow bags	Price
4.01 / 7 / 9.21	031062	N/A -
4.01 / 7 / 10.01	031195	N/A -

Redox buffer solution (E (Ag/AgCl) at 25 °C)

Cat.No.	Description	Price
031063	250 ml bottle Redox buffer solution 220 mV pH 7	N/A -

Electrolytes for reference electrodes

Cat.No.	Description	Price
031112	250 ml bottle of KCL 3 mol/l solution	N/A -
031113	250 ml bottle of AgCl saturated KCL solution	N/A -
031196	250 ml bottle of FRISCOLYT-B electrolyte solution	N/A -
031192	25 ml bottle of LiCL 1M/EtOH electrolyte (6 units)	N/A -

Maintenance solutions

Cat.No.	Description	Price
031341	250 ml bottle storage solution for InLab pH and Redox probes	N/A -
031114	250 ml bottle of HCl pepsin solution	N/A -
031067	250 ml bottle of thiourea	N/A -
031115	25 ml bottle of reactivation solution for glass electrodes	N/A -

Conductivity standards

Cat.No.	Description	Price
031204	250 ml bottle conductivity solution 10 µS/cm	N/A -
673424	250 ml bottle conductivity solution 84 µS/cm	N/A -
031358	250 ml bottle conductivity solution 1413 µS/cm	N/A -
031099	Conductivity solution 1413 µS/cm - box of 30 x 20 ml sachets	N/A -
031100	Conductivity solution 12.88 mS/cm - box of 30 x 20 ml sachets	N/A -
031116	Double junction electrolyte 1 mol/l KNO ₃ - 250 ml	N/A -

pH meter - thermometer, immersion pen



Shockproof and waterproof "pen" PH meter. Suitable for fish farming, aquaculture or water analysis. Supplied with pH 4 and 7 calibration solutions, to be calibrated at each measurement.

- Measures pH from 0 to 14 / ± 0.01
- Temperature range: 0 to 100 °C, ± 0.8 °C
- Integrated functions: Hold, Maxi/Mini
- Memory: 100 measurements, with date
- IP 67 sealing
- Automatic and manual calibration
- Dimensions W x D x H: 40 x 32 x 186 mm
- Weight: 250 g
- Batteries: 4 x AAA

Cat.No.	Description	Price
095392	pH meter thermometer, immersion pen	N/A -
098470	Probe for pH meter 095392	N/A -

pH meter with penetration probe



pH meter with penetration probe for food or soil, ideal for use in agriculture or food processing.

- pH: 0 to 14 / ± 0.02
- Automatic and manual calibration
- Hold function
- IP 65 sealing, 10 min auto stop
- Dimensions W x D x H: 40 x 32 x 186 mm
- Weight: 250 g
- Batteries: 4 x AAA

Cat.No.	Description	Price
095393	pH meter with penetration probe	N/A -

Pen Oximeter



- Measurement of dissolved O₂: 0.0 to 20.0 mg/l (± 0.4 mg/l)
- Aerobic O₂ measurement: 0.0 to 100.0 % (± 0.7 %)
- Temperature: 0 to 50 °C (± 0.8 °C)
- Automatic temperature compensation
- Waterproof IP 65
- Reading and recall of maximum and minimum values
- Auto OFF 10 minutes
- Supplied in a case with 2 probes and a storage solution
- Dimensions: 180 x 40 x 40 mm
- Weight: 175 g
- Batteries: 4 x AAA (not included)

Cat.No.	Description	Price
253428	Pen Oximeter	N/A -
253429	Spare electrode for oximeter 253428	N/A -

Submersible conductivity / TDS meter



- EC: 0 to 2000 µS / 0 to 20 mS (resolution 0.01 mS)
- TDS: 0 to 13200 ppm (1 ppm resolution between 0- 1320 ppm, 10 ppm resolution between 1320-13200 ppm)
- Accuracy: ± 3%
- Temperature: 0 to 60 °C (± 0.8 °C)
- 10 minute auto shutdown
- Automatic or manual temperature compensation
- Waterproof IP67
- Dimensions: 190 x 40 x 40 mm
- Weight: 175 g
- Batteries: 4 x AAA (not included)

Cat.No.	Description	Price
253426	Conductivity meter / TDS pen	N/A -
253427	Spare electrode for conductivity meter 253426	N/A -

HANNA High-precision testers for essential parameters

- Waterproof and robust, floats on water
- Large 2-level screen
- Integrated temperature sensor for temperature measurement and compensation
- Replaceable electrode/probe: quick and easy exchange
- Automatic (pH) compensation / automatic (Temperature EC/TDS) correction
- Stability indicator for safe reading
- Automatic keyboard calibration
- HOLD function to freeze a value on the screen
- Adjustable TDS factor and temperature coefficient (EC)
- Battery power indicator on switch-on (self-extinguishing in case of insufficient power)
- Auto-off after 8 minutes of non-use



6 models to choose from:

- 2 pocket pH meters with temperature range;
- 1 pocket conductivity meter with TDS and temperature ranges;
- 1 pocket instrument for redox measurement with temperature range and with/without pH range;
- 2 multiparameter handheld instruments for pH, conductivity, TDS and temperature measurements.

Accessories

Cat. No.	Description	Price
052005	PH 7 and pH 4 Calibration Kit - 20 ml sachets (5 of each)	N/A -
052001	Preservation solution - 500 ml bottle	N/A -
052002	Cleaning solution for electrodes - 500 ml bottle	N/A -
052003	Spare electrode	N/A -

HANNA
instruments

* In 1 or 2 point with 2 buffer sets stored, (pH 4.01, 7.01, 10.01 or pH 4.01, 6.86, 9.18)
*In 1 point at 1413 µS/cm or 12.88 mS/cm

Testers

Model	HI 98127 pHep 4	HI 98128 pHep 5	HI 98311 DiST 5	HI 98120 Redox	HI 98129 pH/EC Combo	HI 98130 pH/EC Combo
Range						
pH	-2.0 to 16.0 pH	-2.00 to 16.00 pH	-	-	0.00 to 14.00 pH	0.00 to 14.00 pH
EC	-	-	0 to 3999 µS/cm	-	0 to 3999 µS/cm	0.00 to 20.00 mS/cm
TDS	-	-	0 to 2000 mg/L	-	0 to 2000 mg/L	0.00 to 10.00 g/L
Redox	-	-	-	±1000 mV	-	-
Temperature	-5.0 to 60.0 °C	-5.0 to 60.0 °C	0.0 to 60.0 °C	-5.0 to 60.0 °C	0.0 to 60.0 °C	0.0 to 60.0 °C
Resolution						
pH	0.1 pH	0.01 pH	-	-	0.01 pH	0.01 pH
EC	-	-	1 µS/cm	-	1 µS/cm	0.01 mS/cm
TDS	-	-	1 mg/l	-	1 mg/l	0.01 g/l
Redox	-	-	-	1 mV	-	-
Temperature	0.1 °C	0.1 °C	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Accuracy (at 20 °C)						
pH	± 0.1 pH	± 0.05 pH	-	-	± 0.05 pH	± 0.05 pH
Full scale EC/TDS	-	-	± 2%	-	± 2%	± 2%
Redox	-	-	-	±2 mV	-	-
Temperature	± 0.5 °C	± 0.5 °C	± 0.5 °C	± 0.5 °C	± 0.5 °C	± 0.5 °C
Calibration						
pH	Automatic*	Automatic*	-	-	Automatic*	Automatic*
EC/TDS	-	-	Automatic**	-	Automatic**	Automatic**
Auto temp. compensation	Yes	Yes	Yes	-	Yes	Yes
Battery type	4 x 1.5 V	4 x 1.5 V	4 x 1.5 V	4 x 1.5 V	4 x 1.5 V	4 x 1.5 V
Battery life(hours)	300	300	300	300	300	300
Battery Error Prevention System	Yes	Yes	Yes	Yes	Yes	Yes
Auto-off after 8 min.	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions / Weight	163 x 40 x 26 mm / 85 g					
Cat.No.	052000	052384	052427	052389	052436	052437
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

HI 5000 Series Research Quality pH Meters and Multiparameter pH Meters



- Large graphic display
- Dirt-resistant touch keyboard
- Contextual help menu
- CalCheck pH calibration function
- Automatic or manual storage of measurements
- USB port for connection to a computer
- GLP compliance

HI 5221 and HI 5222 pH meters supplied with:

- supplied with HI 1131B combination pH electrode;
- Temperature probe HI 7662-W;
- bag of buffer solutions pH 4, pH7;
- cleaning solutions for electrodes;
- electrolyte solution;
- electrode holder;
- AC adapter.

HI 5521 and HI 5522 multiparameter pH meters supplied with:

- supplied with HI 1131B combination pH electrode;
- EC/TDS HI 76312 probe;
- Temperature probe HI 7662-W;
- bag of buffer solutions pH 4, pH7;
- cleaning solutions for electrodes;
- electrolyte solution;
- a dosing pipette;
- electrode holder;
- AC adapter.

Ranges		pH meters		pH meters and multiparameters	
Model		HI 5221	HI 5222	HI 5521	HI 5522
pH-metry	Range	- 2.0 to 20.0 pH / -2.00 to 20.00 pH / -2.000 to 20.000 pH			
	Resolution	0.1 pH / 0.01 pH / 0.001 pH			
	Accuracy	± 0.1 pH / ± 0.01 pH / ± 0.002 pH			
Redox	Range	± 2000 mV			
	Resolution	0.1 mV			
	Accuracy	± 0.2			
Conductivity	Range	-	-	0.000 to 1000 mS/cm	
	Resolution	-	-	From 0.001 µS/cm to 1 mS/cm	
	Accuracy	-	-	± 1%	
Resistivity	Range	-	-	1.00 Ohm-cm to 100.0 MOhm-cm	
	Resolution	-	-	From 0.01 Ohm-cm to 0.1 MOhm-cm	
	Accuracy	-	-	± 2%	
TDS	Range	-	-	0.000 mg/l at 400 g/l	
	Resolution	-	-	From 0.001 mg/l to 0.1 g/l	
	Accuracy	-	-	± 1%	
Salinity	Range	-	-	Practical salinity: 0 to 42 g/l / sea water: 0.00 to 80.00 g/l 0.0 to 400.0%	
	Resolution	-	-	0.01 g/l / 0.1%	
	Accuracy	-	-	± 1%	
Ionometry	Range	-	1.00 x 10 ⁻⁷ to 9.99 x 10 ⁻¹⁰ conc. 105 to 0.005 ppm	-	1.00 x 10 ⁻⁷ to 9.99 x 10 ⁻¹⁰ conc. 105 to 0.005 ppm
	Resolution	-	0.01 to 1	-	0.01 to 1
	Accuracy	-	± 1%	-	± 1%
Temperature	Range	- 20 to 120 °C			
	Resolution	0.1 °C			
	Accuracy	± 0.2 °C			
PC connection	Optically isolated USB port				
Dim. (W x D x H) (mm)	160 x 231 x 94				
Weight (kg)	1.2				
Cat. No.	052409B	052412B	052411B	054585	
Price	N/A -	N/A -	N/A -	N/A -	

Accessories

Cat. No.	Description	Price
052015	Electrode holder	N/A -
052025	RS 232 cable for PC connection	N/A -

ANALYSIS AND MEASUREMENTS

HANNA EDGE BLU pH pH/mV meter

1st Bluetooth® pH meter

- **Technologie Bluetooth® Smart technology:** no need for a cable between the pH meter and the HALO® probe, low power consumption (BLE) with integrated temperature sensor
- **Max distance:** 10 metres
- **GLP compliant:** date, time, o-point, slope and buffer solutions used for calibration are stored
- **Cal-check indication:** electrode condition, response time, buffer solutions quality, electrode cleanliness
- **Internal memory:** on demand, at the end point and in automatic storage - transfer via USB stick or PC
- **Simplified mode:** ideal for routine measurements
- **Standard mode:** for more accurate measurements
- **Intuitive operation**



See the characteristics of the HANNA EDGE tablet (see page 366)

pH	Range	-2 to 16 (simplified mode)
		-2 to 16 (standard mode)
	Resolution	pH in mV: ± 1000 mV
		0.01 pH (simplified mode)
		0.001 pH (standard mode)
	Accuracy at 25 °C	pH in mV: 0.1 mV
		± 0.01 pH (simplified mode)
Calibration	0.002 pH (standard mode)	
	pH in mV: ± 0.2 mV	
Temperature compensation	Simplified mode: in 3 points with 5 buffers stored (4.01; 6.86; 7.01; 9.18 and 10.01) Standard mode: 5-point with 7 stored buffers (1.68; 4.01 or 3; 6.86; 7.01; 9.18; 10.01; 12.45) and 2 user buffers Automatic from - 5 to 100 °C (with integrated temperature sensor)*	
Cal-Check	Electrode status, response time and calibration interval control	
Temperature	Range	-20 to 120 °C
	Resolution	0.1 °C
	Accuracy at 25 °C	± 0.5 °C
Memory	Up to 1000 measurements (400 in simplified mode): 200 measurements on demand; 200 at the end point; 600 in automatic memory	
Connectivity	1 USB port for transfer to USB stick; 1 micro-USB port for charging and PC connection	
Supplied with	PH electrode HI11102 gel electrolyte, glass body, integrated temperature sensor, Bluetooth® smart connection, buffer solutions 4 and 7 in sachets (2 of each), cleaning solution (2 sachets of 25 ml), 5V power adapter and CR2032 battery	
Dimensions / weight	202 x 140 x 12.7 mm / 250 g	
Cat. No.	054621	
Price	N/A -	

*within the temperature range of the connected probe



ANALYSIS AND MEASUREMENTS

Solutions

Cat. No.	Description	Price
052482	Storage solution for electrodes - 230 mL bottle	N/A -
052186	Electrolyte solution for double-junction electrodes (4 x 30 ml)	N/A -
052079	PH 4.01 solution - 25 x 20 ml sachets	N/A -
052080	PH 7.01 solution - 25 x 20 ml sachets	N/A -
052081	PH 10 Solution - 25 x 20ml sachets	N/A -

HALO® Bluetooth® Electrodes

Model	HI 11102	HI 11312	HI 12302	FC 2022	HI 10832	HI 13302	FC 2142	HI 12922	HI 14142
Junction	Ceramic	Ceramic	Ceramic	Open junction	Open	Open	Open	Triple ceramic	Open
Electrolyte	Gel	3.5 M KCl	Gel	Viscolene	Viscolene	Viscolene	Viscolene	Viscolene	Viscolene
Range	0 to 12	0 to 13	0 to 12	0 to 12	0 to 13	0 to 13	0 to 12	0 to 13	0 to 12
Operating temperature	-5 to 80 °C	-5 to 80 °C	-5 to 70 °C	0 to 60 °C	0 to 50 °C	0 to 50 °C	0.0 to 60.0 °C	0 to 50 °C	0 to 50 °C
Temperature sensor	Integrated	Integrated	Integrated	Integrated	-	-	Integrated	-	Integrated
Electrode material	Glass	Glass	PE	PVDF	Glass	Glass	PVDF	Glass	Glass
Uses	General in the laboratory	General in the laboratory	On the field	Dairy products (milk, cheese, yoghurt), semi-solid foods	Sample < 100µl	Test tube	Beer	Soil	Agar measurement
Connection	Bluetooth® smart (Bluetooth® 4.0) range 10 meters								
Battery / Lifetime	CR2032 3V / Approx. 500 hours continuous use								
Cat. No.	054622	054623	054624	054625	523931	523930	523932	523924	523918
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

hanna EDGE single or multiparameter pH meter



Multiparameters

Single-parameter

Measure pH, conductivity or dissolved oxygen with the EDGE tablet and its smart digital probe kits!

Features

- **Measurements:** pH, conductivity or oximetry
- **Configurations, calibrations, diagnostics**
- **Internal memory (1000 measurements) or data transfer (PC or USB stick)**
- **Basic mode:** ideal for routine measurements, with a simplified display
- **Expert mode:** for full instrument setup
- **GLP compliance:** storage of the last calibration data in the digital probe (when connected to the EDGE tablet, this information is transferred automatically)
- **Automatic recognition of digital probes when connected**
- **CAL-Check function:** checks that the calibration procedures are carried out correctly. (Only for pH measurements)
- **Sensor Check function (HI 12301 and HI11311 digital pH probes only):** monitoring of electrode impedance, detecting any related malfunction
- **Multi-parameter models accept all digital probes**

The tablet

- **Very thin:** 13 mm thick
- **Ultra-light:** 250 g
- **Glass front panel:** can be used with gloves, glass protects the front of the tablet
- **LCD display:** 5.5 inch (14 cm), excellent readability, all displays in text messages
- **Capacitive keypad**
- **2 USB ports (1 USB for memory stick, 1 mini-USB to PC)**
- **Rechargeable via mains and USB**
- **3.5 mm jack:** robust, 'break-proof' connection
- **Ergonomics:** zero clutter, can be used in hand, on the bench or wall-mounted (bracket and wall-mount supplied with the kits)



EDGE is available in 3 kits: pH, EC or DO.

Each kit contains:

- The EDGE tablet
- Docking and charging station, with electrode holder
- Wall bracket
- USB cable
- 5V power adapter
- Operating guide
- + the specific contents of each kit (see below)

	PH Kit		EC kit (conductivity)		DO kit (oximetry)	
Contains	- HI 11310 Digital pH electrode, refillable, glass body with a built-in temperature sensor. - Buffer solution sachets (pH 4, 7 and 10): 2 of each - Cleaning solution for electrodes - Quality certificate		- HI 76310 conductivity probe with a built-in temperature sensor - Calibration solution sachets (1413 µS/cm and 12880 µS/cm, 3 each) - Quality certificate		- HI 764080 Dissolved Oxygen probe with a built-in temperature sensor - HI 7041S electrolyte solution - 2 membranes and 2 seals for dissolved oxygen probe - Quality certificate	
Range	- Basic mode: - 2.00 to 16.00 pH - Standard mode: - 2.000 to 16.000 pH ± 1000.0		From 0.00 µS/cm to 500 mS/cm (absolute conductivity) - TDS and salinity		- 0.00 to 45.00 mg/l (ppm) - 0.0 to 300% oxygen saturation	
Resolution	0.01 pH; 0.001 pH; 0.1 mV				0.01 mg/l (ppm); 0.1% saturation	
Accuracy	(at 25 °C) ± 0.01 pH; ± 0.002 pH; ± 0.2 mV				1.5% of reading ± 1 digit	
Calibration	- Basic mode: in 3-point; standard mode: in 5-point - 7 standard buffers stored + 2 user-defined specific buffers*		- Calibration to 0 (in air) and cell constant factor - 6 standards to choose from		- In 1 or 2 points at 0% (with HI 7040 solution) and 100% (in air)	
Temperature compensation	Automatic from - 20.0 °C to 120.0 °C		Automatic from -20.0 °C to 120.0 °C (Can be switched off for absolute conductivity measurement)		Automatic from 0 °C to 50 °C	
Cat. No.	523674**	054503***	523703**	054504***	523704**	054505***
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

** Single-parameter

*** Multiparameters

Additional digital electrodes/probes

The following digital probes, including those included in the kits, are the only ones compatible with the EDGE pH meter. Supplied with a 1 m cable.

Cat.No	Measures	Model	Body	Filling	Junction	Temperature sensor	Entrance** differential	Price
054506	pH	HI 11310	Glass	Yes	Double	Integrated	No	N/A -
054507	pH	HI 11311	Glass	Yes	Double	Integrated	Yes	N/A -
054508	pH	HI 12300	Plastic	Gel	Double	Integrated	No	N/A -
054509	pH	HI 12301	Plastic	Gel	Double	Integrated	Yes	N/A -
054510	pH	HI 10530	Glass	Yes	Simple	Integrated	No	N/A -
054511	pH	HI 10430	Glass	Yes	Double	Without	No	N/A -
054512	Conductivity	HI 763100	-	-	-	Integrated	No	N/A -
054513	Oximetry	HI 764080	-	-	-	Integrated	No	N/A -

**The differential input is specific to the Sensor Check function.



Docking and charging station, with electrode holder

5V power adapter

HI 99300 and HI 99301 compact conductivity / TDS meters

- Compact, waterproof case
- Simultaneous display of conductivity (or TDS) and temperature
- Delivered in a case
- Easy to use
- Automatic correction of temperature measurements
- Low battery warning indicator
- Quick DIN connector with coding

Model		HI 99300	HI 99301
Range	Conductivity	0 to 3999 µS/cm	0.00 to 20.00 mS/cm
	TDS	0 to 2000 mg/l (ppm)	0.00 to 10.00 g/l (ppt)
	Temperature	5.0 to 105.0 °C	
Accuracy	Conductivity	± 2 % full scale	
	TDS	± 2 % full scale	
	Temperature	± 0.5 °C	
TDS Conversion factor	Adjustable from 0.45 to 1.00 in steps of 0.01		
Calibration		Automatic 1-point at 1413 µS/cm	Automatic 1-point at 12.88 mS/cm
Temperature correction	Automatic with adjustable β from 0.0 to 2.4 %/ °C		
Power supply	3 x 1.5 V AAA batteries		
Dimensions (mm)	154 x 63 x 30		
Weight (g)	196		
Supplied with	Conductivity probe 523966		
	Calibration solution 1413 µS/cm (20 ml)	Calibration solution 12.88 mS/cm (20 ml)	
	Calibration solution 1382 mg/l (20 ml)	Calibration solution 6.44 g/l (20 ml)	
	cleaning solution (2 x 20 ml)		
	1 beaker		
	Batteries		
	Carrying case		
Cat. No.		052434B	052435B
Price		N/A -	N/A -



Accessories

Cat. No.	Description	Price
523966	Conductivity probe	N/A -
523954	Orange protective case	N/A -
523955	Blue protective case	N/A -

Calibration solution

Cat. No.	Value	Pack.	Price
052155	1413 µS/cm	25 x 20 ml sachets	N/A -
052153	12800 µS/cm	25 x 20 ml sachets	N/A -
052171	1382 mg/l	25 x 20 ml sachets	N/A -
052177	6.44 g/l	25 x 20 ml sachets	N/A -

Compact multiparameters HI 991300 and HI 991301

- Compact, waterproof case
- 4 measuring devices in 1
- Simplified keyboard calibration
- Automatic temperature compensation
- % battery charge indicated when the device is switched on
- Warranty: 2 years
- Quick DIN connection

➤ **Supplied with:**

- a carrying case;
- a pH/EC/TDS/T° probe.

Model	HI991300	HI991301
Range	pH -2.00 to 16.00 / -2.0 to 16.0	
	mV: ± 825 mV	
	EC: 0 to 3999 µS/cm	EC: 0.00 to 20.00 mS/cm
	TDS: 0 to 2000 mg/l (ppm)	TDS: 0.00 to 10.00 g/l (ppt)
	Temperature: - 5.0 to 105.0 °C	
Accuracy	± 0.02/± 0.1	
	mV: ± 1 mV	
	EC/ TDS: ± 2 % full scale	
Calibration	Temperature: ± 0.5 °C	
	pH 1 or 2 points	
	EC / TDS: 1 point at 1413 µS/cm or 1382 mg/l	
Temperature compensation	Automatic	
Power supply	3 x 1.5V AAA batteries	
Dimensions (mm)	154 x 63 x 30	
Weight (g)	196	
Cat. No.	052391B	052392B
Price	N/A -	N/A -



Accessories

Cat.No	Description	Price
524007	PH/EC/TDS/Temperature probe with 1 m cable Quick Din connector	N/A -
523955	Blue protective case	N/A -
052153	Calibration solution 12880 µS/cm, 25 x 20 ml sachets	N/A -
052177	Calibration solution 6.44 g/L, 25 x 20 ml sachets	N/A -
052455	Calibration solutions 1413 µS/cm and pH 7, 10 x 20 ml	N/A -
052456	Calibration solutions 1500 mg/L and pH 7, 20 ml bags, 10 of each	N/A -

Hanna HI 98192 conductivity meter



- 6 conductivity measurement ranges
- 7 resistivity measurement ranges from 0.1 Ω.cm to 100.0 MΩ.cm
- USP Compliant < 645 > for purified water and injectable preparations
- GLP compliance: storage of the last calibration data in the digital probe
- Automatic recognition of the probe per instrument
- Adjustable temperature coefficient
- Automatic calibration of up to 5 points
- Powered by 4 x 1.5 V batteries
- IP67
- Internal memory: 400 measurements on demand, 1000 in automatic memory
- Transfer to a PC via micro USB port (software required)

Supplied with:

- case with 4-ring conductivity probe HI763133;
- with DIN connector and 1 m cable;
- standard solutions 1413 μS/cm (230 ml) and 111.8 mS/cm (230 ml);
- 2 x 100 ml plastic beakers;
- data transfer software, mini USB cable and batteries.

Accessories

Cat.No	Description	Price
523706	Conductivity probe HI 763133	N/A -
052018	Solution 84 μS/cm (500 ml)	N/A -
052019	Solution 1413 μS/cm (500 ml)	N/A -
052020	Solution 12880 μS/cm (500 ml)	N/A -
052021	Solution 80000 μS/cm (500 ml)	N/A -
052022	Solution 111800 μS/cm (500 ml)	N/A -

* The conductivity range 0.001 μS/cm and resistivity 0.1 MΩ.cm cannot be measured with probes with a 4 m cable.

EC	Range	0.001 to 9.999 μS/cm*; 10.00 to 99.99 μS/cm; 100.0 to 999.9 μS/cm; 1.000 to 9.999 mS/cm; 10.00 to 99.99 mS/cm; 100.0 to 1000.0 mS/cm
	Accuracy	± 1 % of measured value (±0.01 μS/cm or 1 digit (whichever is greater))
	Calibration	Automatic up to 5 points with 7 standard buffers stored (0.00 μS/cm; 84 μS/cm; 1413 μS/cm; 5 mS/cm; 12.88 mS/cm; 80 mS/cm; 111.8 mS/cm)
Temperature	Range	- 20 to 120 °C
	Resolution	0.1 °C
	Accuracy	± 0.2 °C (excluding sensor error)
Temperature correction	Without correction, linear (-20 to + 120 °C), non-linear (0 to 36 °C)-ISO/DIN 7888	
Measurement mode	Automatic selection, selection at final value, selection of range set at measured value and manual range selection by user	
Reference temperature	15 °C; 20 °C; 25 °C	
Temperature coefficient	0.00 to 10.00 %/ °C	
Cat. No.	523702	
Price	N/A -	

HI 5321 Research Quality Conductivity Meter

- Large graphic display
- Dirt-resistant touch keyboard
- Contextual help menu
- Automatic 4-point calibration for high accuracy
- 4 ring platinum conductivity probe with replatinisation function
- Temperature coefficient adjustable from 0 to 10%
- Automatic or manual storage of measurements
- USB port for connection to a computer
- GLP compliance

Delivered with:

- Conductivity probe HI 76312,
- Calibration solutions 1413 μS/cm, 5000 μS/cm and 12880 μS/cm,
- rinsing solutions,
- electrode holder,
- AC adapter.



Conductivity	Range	0.000 to 1000 mS/cm
	Resolution	From 0.001 μS/cm to 1 mS/cm
	Accuracy	± 1%
Resistivity	Range	1.00 Ohm-cm to 100.0 MOhm-cm
	Resolution	From 0.01 Ohm-cm to 0.1 MOhm-cm
	Accuracy	± 2 %
TDS	Range	0.000 mg/l at 400.0 g/l
	Resolution	From 0.001 mg/l to 0.1 g/l
	Accuracy	± 1 %
Salinity	Range	Practical salinity: 0.00 to 42.00 g/l Sea water: 0.00 to 80.00 g/l NaCl %: 0.0 to 400.0 %
	Resolution	Practical salinity: 0.01 g/l Sea water: 0.01 g/l NaCl %: 0.1 %
	Accuracy	± 1 %
Temperature	Range	- 20 to 120 °C
	Resolution	0.1 °C
	Accuracy	± 0.2 °C
Memorization	Up to 10 batches and 5000 measurements per batch	
PC connection	Optically isolated USB port	
Dim. W x D x H (mm)	160 x 231 x 94	
Weight (kg)	1.2	
Cat. No.	052410B	
Price	N/A -	

Ready-to-use Hanna standard solutions

The guarantee of quality and traceability
HANNA Instruments buffers are manufactured with NIST-certified reference materials and standardized with a pH meter calibrated to a primary standard that is also NIST-certified.

Designed to suit a wide range of applications, they are available in a variety of packaging options:

- in 20 ml sealed plastic bags for field use, single use, eliminating all risk of contamination;
 - in 500 ml vials for the laboratory.
- * Solutions delivered with certificates

Buffer solutions Kit

Cat. No.	Description	The	Price
052408*	Buffer solutions pH 4.01 and 7.01	5+5 x 20 ml	N/A -
052005	Buffer solutions pH 4.01 and 7.01	5+5 x 20 ml	N/A -
052414*	Buffer solutions pH 7.01 and 10.01	5+5 x 20 ml	N/A -
052415	Buffer solutions pH 7.01 and 10.01	5+5 x 20 ml	N/A -



Ready-to-use conductivity and TDS solutions

Cat. No.	µS/cm	the	Price	Cat. No.	g/l	the	Price
Conductivity solutions				Standard TDS solutions			
052153	12880	25 x 20 ml	N/A -	052169	0.8	25 x 20 ml	N/A -
052154*	12880	25 x 20 ml	N/A -	052170*	0.8	25 x 20 ml	N/A -
052020	12880	500 ml	N/A -	052171	1.382	25 x 20 ml	N/A -
052155	1413	25 x 20 ml	N/A -	052172*	1.382	25 x 20 ml	N/A -
052156*	1413	25 x 20 ml	N/A -	052173	1.382	500 ml	N/A -
052019	1413	500 ml	N/A -	052174	1.5	25 x 20 ml	N/A -
052018	84	500 ml	N/A -	052176	1.5	500 ml	N/A -
052021	80000	500 ml	N/A -	052177	6.44	25 x 20 ml	N/A -
052022	111800	500 ml	N/A -	052178*	6.44	25 x 20 ml	N/A -
052160	5000	25 x 20 ml	N/A -	052179	12.41	500 ml	N/A -
052161*	5000	25 x 20 ml	N/A -				
052162	5000	500 ml	N/A -				
Special conductivity solutions							
food industry							
052163	12880	500 ml	N/A -				
052164	1413	500 ml	N/A -				
052165	84	500 ml	N/A -				
052166	80000	500 ml	N/A -				
052167	111800	500 ml	N/A -				
052168	5000	500 ml	N/A -				

Ready-to-use redox solutions

Cat. No.	Description	The	Price
052102	Test solution 240 mV	500 ml	N/A -
052103	Test solution 470 mV	500 ml	N/A -

Preservation solutions for electrodes

Cat.No	Description	The	Price
052001	Storage solution for pH electrodes	500 ml	N/A -
052180	Storage solution, opaque bottle for pH electrodes	500 ml	N/A -
052181	Reductive redox solution	500 ml	N/A -
052182	Oxidising redox solution	500 ml	N/A -

Electrolyte solutions (for filling electrodes)

Cat.No	Description	The	Price
052104	Electrolyte 3.5M KCl + AgCl for electrodes single-junction	4 x 30 ml	N/A -
052183	Electrolyte 3.5M KCl + AgCl, opaque flasks for single-junction electrodes	4 x 30 ml	N/A -
052184	Electrolyte 1M KNO ₃ for electrodes double-junction	4 x 30 ml	N/A -
052186	Electrolyte 3.5M KCl for electrodes double-junction	4 x 30 ml	N/A -
052187	Electrolyte 3.5M KCl, opaque flasks for double-junction electrodes	4 x 30 ml	N/A -
052188	Electrolyte 1M KCl + AgCl, opaque flasks for double-junction electrodes	4 x 30 ml	N/A -

Ready-to-use pH standard solutions

Cat. No.	pH	The	Price	Cat. No.	pH	The	Price
Standard solutions				Technical standard solutions			
052117	1.68	500 ml	N/A -	052126	1.00	500 ml	N/A -
052079	4.01	25 x 20 ml	N/A -	052127	2.00	500 ml	N/A -
052082*	4.01	25 x 20 ml	N/A -	054495	3.00	25 x 20 ml	N/A -
052012	4.01	500 ml	N/A -	052129	3.00	500 ml	N/A -
052077*	4.01	500 ml	N/A -	052130	5.00	500 ml	N/A -
052005	4.01+7.01	5+5 x 20 ml	N/A -	052131	6.00	500 ml	N/A -
052408*	4.01+7.01	5+5 x 20 ml	N/A -	052132	8.00	500 ml	N/A -
052383	4.01	1 l	N/A -	052133	9.00	500 ml	N/A -
052118	6.86	25 x 20 ml	N/A -	052134	11.00	500 ml	N/A -
052119*	6.86	25 x 20 ml	N/A -	052135	12.00	500 ml	N/A -
052120	6.86	500 ml	N/A -	052136	13.00	500 ml	N/A -
052121*	6.86	500 ml	N/A -	High resolution standard solutions			
052080	7.01	25 x 20 ml	N/A -	052137	1.00	500 ml	N/A -
052083*	7.01	25 x 20 ml	N/A -	052138	4.010	500 ml	N/A -
052013	7.01	500 ml	N/A -	052139	6.00	500 ml	N/A -
052076*	7.01	500 ml	N/A -	052140	7.010	500 ml	N/A -
052382	7.01	1 l	N/A -	052141	9.177	500 ml	N/A -
052415	7.01+10.01	5+5 x 20 ml	N/A -	052142	10.010	500 ml	N/A -
052414*	7.01+10.01	5+5 x 20 ml	N/A -	Special agri-food standard solutions			
052122	9.18	25 x 20 ml	N/A -	052143	4.01	500 ml	N/A -
052123*	9.18	25 x 20 ml	N/A -	052144*	4.01	500 ml	N/A -
052124	9.18	500 ml	N/A -	052145	6.86	500 ml	N/A -
052125*	9.18	500 ml	N/A -	052146*	6.86	500 ml	N/A -
052081	10.01	25 x 20 ml	N/A -	052147	7.01	500 ml	N/A -
052084*	10.01	25 x 20 ml	N/A -	052148*	7.01	500 ml	N/A -
052014	10.01	500 ml	N/A -	052149	9.18	500 ml	N/A -
052078*	10.01	500 ml	N/A -	052150*	9.18	500 ml	N/A -
				052151	10.01	500 ml	N/A -
				052152*	10.01	500 ml	N/A -

Cleaning solutions for pH electrodes

Cat.No	Solutions Applications	The	Price
052189	Rinsing Solution	25 x 20 ml	N/A -
052190	For general use and agriculture	25 x 20 ml	N/A -
052002	For general use	500 ml	N/A -
052191	For general use, opaque bottle	500 ml	N/A -
052105	For proteins	500 ml	N/A -
052192	For proteins, opaque bottle	500 ml	N/A -
052193	For inorganic materials	500 ml	N/A -
052106	For oils and fats	500 ml	N/A -
052194	For oils and fats, opaque bottle	500 ml	N/A -
054619	For the cosmetic industry for oils and fats	1 x 500 ml	N/A -
052197	For meats	25 x 20 ml	N/A -
052198	For wine deposits (tartar)	25 x 20 ml	N/A -
052199	For wine stains	25 x 20 ml	N/A -
052200	For milk	25 x 20 ml	N/A -
052201	For dairy products for disinfection of the electrode	25 x 20 ml	N/A -
052202	For cheese	25 x 20 ml	N/A -
052203	For soils (ground, compost)	25 x 20 ml	N/A -
052204	For soils (compost, humus)	25 x 20 ml	N/A -
052205	For salt deposits (process)	25 x 20 ml	N/A -

HANNA combined electrodes

Filling solution for single junction electrodes, use HI 7071 3.5M KCl/AgCl solution - Cat. No. 052104.

Filling solution for double junction electrodes, use HI 7082 3.5M KCl solution - Cat. No. 052186.

Cat. No.	Model	Junction	Form	Connector	Pressure Bar/PSI	Cable	Range (°C)	Body	Junction	Cell	Price
Combined pH electrodes											
052113	HI 1043B	1 ceramic \varnothing 1.2 mm	Spherical \varnothing 9.5 mm	BNC	0.5/7.25	Coaxial	-5/+100	Glass	Double	Filling	N/A -
052111	HI 1053B	3 ceramic \varnothing 1.2 mm	Conical 12 x 12 mm	BNC	0.5/7.25	Coaxial	-5/+100	Glass	Simple	Filling	N/A -
052086	HI 1083B	Direct contact	Spherical \varnothing 3 mm	BNC	0.1/1.45	Coaxial	0/+50	Glass	Simple	V/Spherical \varnothing 7.5 mmolene	N/A -
052011	HI 1131B	1 ceramic \varnothing 1.2 mm	Spherical \varnothing 9.5 mm	BNC	0.5/7.25	Coaxial	-5/+100	Glass	Simple	Filling	N/A -
052210	HI 1330B	1 ceramic \varnothing 1.2 mm	Spherical \varnothing 5 mm	BNC	0.5/7.25	Coaxial	-5/+100	Glass	Simple	Filling	N/A -
052006	HI 1230B	1 ceramic \varnothing 1.2 mm	Spherical \varnothing 7.5 mm	BNC	0.1/1.45	Coaxial	0/+80	Ultem®	Double	Gel	N/A -
052235	HI 2031B	1 ceramic \varnothing 1.2 mm	Conical 6 x 10 mm	BNC	0.5/7.25	Coaxial	-5/+100	Glass	Simple	Filling	N/A -
Combined platinum Redox Electrodes											
052101	HI 3131B	1 ceramic	Metal rod \varnothing 1 mm	BNC	0.5/7.25	Coaxial	-5/+100	Glass	Simple	Filling	N/A -



HI 1043

HI 1053

HI 1083

HI 1230

TRIS electrode



Special glass electrode TRIS HI1144B.

Cat. No.	Description	Price
052371	TRIS Special electrode	N/A -

Universal support arm with "multi-position" electrodes



- Made of ABS and steel
- High stability thanks to its metal base
- Special for working at different heights and positions
- 360° rotation
- Length of each arm: 215 mm
- End of the arm with devices for coupling both 2 electrodes of \varnothing 16 mm, 2 electrodes of \varnothing 14 mm and a temperature probe of \varnothing 0.5 mm

Cat. No.	Description	Price
068594	Arm with electrode holder	N/A -

Reservoir bottles for electrode protection



063105
063106

063107
063108

- Fits over the electrodes and keeps them in contact with the electrolyte solution
- Sealed system to prevent evaporation and salt deposits
- Borosilicate glass
- With screw cap and seal
- Indelible circular line, maximum level of electrolyte

Cat. No.	Description	Price
063105	Protelec bottle for \varnothing 8 mm electrodes	N/A -
063106	Protelec bottle for \varnothing 12 mm electrodes	N/A -
063107	Protelec storage bottle for \varnothing 8 mm electrodes	N/A -
063108	Protelec storage bottle for \varnothing 12 mm electrodes	N/A -

eUTECH pH meter

- Memory 150 values
- Large display
- IP67
- 3 year warranty
- Floating case
- Supplied with Grip-Clip™ electrode holder
- Automatic buffer recognition

pH	Range	-2.00 to 16.00
	Resolution	0.01
	Accuracy	± 0.01
	Calibration	Up to 5 points (NIST buffer) Up to 6 points (DIN buffer)
mV	Range	± 2000 mV
	Resolution	0.1 (± 999.9 mV); 1 mV below
	Accuracy	± 0.2 mV + 2 Digit or ± 0.5% of measured value
	Calibration	± 200 mV
Temperature	Range	-10.0 to 110.0 °C
	Resolution	0.1 °C
	Accuracy	± 0.5 °C
Temperature compensation	Automatic or manual between -10 and 110 °C	
Connectivity	BNC	
Memory	150 values	
Dimensions	23 x 23 x 7 cm	
Weight	0.7 kg	
Cat. No.	262724	
Price	N/A -	



Electrode

Measuring range	0 to 13
Temperature sensor	No
Cat. No.	Ag/AgCl
Filling	No
Junction	Double
Dimensions (mm)	90 x 12
Cable length	1 m
Connectivity	BNC
Cat. No.	262782
Price	N/A -

Temperature probe

Cat. No.	Description	Price
262783	Temperature probe	N/A -

pH / Conductivity meter Eutech PC450

- Accepts either a pH electrode and a conductivity probe, or a probe combining the 2 parameters
- IP67
- Large backlit display
- Grip Clip™ electrode holder
- Memory: 500 values

PH range	-2.00 to 16.00
PH accuracy	± 0.01
MV range	± 2000
Resolution	0.1 (± 999.9 mV) 1 (remaining range)
Accuracy mV	± 0.2 mV + 2 x last significant digit or ± 0.5% of reading value
Conductivity range	0 to 200 mS/cm
Resolution	0.01 µS to 0.1 mS
Conductivity accuracy	± 1 % full scale
Temperature range	-10.0 to 110.0 °C
Accuracy	± 0.5 °C
Port	RS 232 and USB
Power supply	2 x 1.5V AA batteries
Dimensions	200 x 83 x 57 mm
Weight	0.5 kg

Cat.No	Description	Price
262949	pH / conductivity meter PC450 delivered without electrode	N/A -
262952	pH / conductivity meter PC450 supplied with pH electrode and conductivity probe	N/A -
262953	pH / conductivity meter pC450 supplied with pH electrode and conductivity probe in case	N/A -
262950	pH / conductivity meter PC450 with combi pH / conductivity electrode	N/A -
262951	pH / Conductivity meter pC450 with combi pH / Conductivity electrode in case	N/A -



Accessories

Cat.No	Description	Price
262782	Double junction pH electrode with 1 metre cable BNC connector	N/A -
262929	Conductivity probe glass body K = 0.1	N/A -
262930	Conductivity probe glass body k = 1	N/A -

eUTECH pH700 benchtop pH-meter



- Compact
- Wide screen
- Easy to use
- Memory 100 values
- Hold functions and stability indicator
- Supplied with electrode and electrode holder

pH Range	-2.00 to 16.00
Accuracy	± 0.01
Calibration	In 5 points max
Redox range	± 2000 mV
Resolution	0.1 mV (± 199.9 mV) / 1 mV (remaining range)
Accuracy	± 0.2 mV (± 199.9 mV) / ± 2 mV (remaining range)
Temperature	0.0 to 100.0 °C
Accuracy	± 0.3 °C (0 to 70 °C)
Temperature compensation	Automatic and manual
Dimensions (mm)	175 x 155 x 69
Weight	690 g
Cat. No.	262802
Price	N/A -

Accessory

Cat. No.	Description	Price
262872	Spare electrode	N/A -

Eutech / Thermo Scientific pocket pH meter

- Portable
- IP67
- Hold functions (Elite model only)
- Replaceable electrode (Elite model only)
- Wide screen
- Auto-off functions (after 8.5 minutes)
- Backlit display (Elite model only)
- PH and temperature display

	Expert pH	Elite pH	Elite Spear	Expert CTS	Elite CTSPIN	Elite CTS CUP	Elite ORP	Elite PCTS
PH range	0.0 to 14.0	-1.00 to 15.00	-	-	-	-	-	-1.00 to 15.00
Resolution	0.1	0.01	-	-	-	-	-	0.01
Accuracy	± 0.1	± 0.02	-	-	-	-	-	± 0.02
Conductivity range	-	-	-	0.00 to 20.00 mS/cm			-	-
Resolution	-	-	-	10 µS/cm (0 to 1990 µS/cm); 0.10 mS/cm (2.00 to 20.00 mS/cm)	0.1 µS/cm (0 to 200 µS/cm); 1 µS/cm (200 to 2000 µS/cm); 0.01 mS/cm (2.00 to 20.00 mS/cm)		-	0.00 to 20.00 mS/cm 0.1 µS/cm (0 to 200 µS/cm); 1 µS/cm (200 to 2000 µS/cm); 0.01 mS/cm (2.00 to 20.00 mS/cm)
Accuracy	-	-	-	± 2 %	± 1 %		-	± 1 %
Redox range	-	-	-	-	-	-	± 1000 mV	-
Accuracy	-	-	-	-	-	-	± 3 mV	-
Calibration	From 1 to 3 points			1 point	From 1 to 3 points		1 point (200 mV)	-
Temperature range	0.0 to 50.0 °C	0.0 to 60.0 °C		0.0 to 50.0 °C	0.0 to 60.0 °C		-	0.0 to 60.0 °C
Accuracy	± 0.6 °C	± 0.6 °C (0 to 50 °C); ± 1.1 °C (50 to 60 °C)		± 0.6 °C	± 0.6 °C (0 to 50 °C); ± 1.1 °C (50 to 60 °C)		-	± 0.6 °C (0 to 50 °C); ± 1.1 °C (50 to 60 °C)
Temperature compensation	Automatic						Manual	Automatic
Power supply	4 x 1.5V LR44 battery	4 x 1.5 V LR03 batteries		4 x 1.5V LR44 battery	4 x 1.5 V LR03 batteries			-
Dimensions (mm)	170 x 45 x 30	200 x 45 x 36	280x 45 x 36	170 x 45 x 30	202 x 45 x 36		200 x 45 x 36	200 x 45 x 36
Cat. No.	262946	262943	262945	999315	999316	999323	999318	999320
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -
Cat.No. in case	-	262942	262944	-	999311	999310	-	999312
Price	-	N/A -	N/A -	-	N/A -	N/A -	-	N/A -

Spare electrodes

Cat. No.	Description	Price
262947	Spare electrode for Elite pH	N/A -
262948	Spare electrode for Elite pH spear	N/A -

ORION STAR A110 series pH meter

► Economic model

► Easy to use

Supplied with:

- with pH electrode 9157
- with temperature sensor

pH	Measuring range	-2.00 to 16.00
	Resolution	0.1 / 0.01
	Accuracy	± 0.01
mV	Measuring range	-1600.0 to +1600.0
	Resolution	0.1
	Accuracy	± 0.2 mV or ± 0.05% of the measured value
Temperature	Measuring range	-5.0 to +105.0 °C
	Resolution	0.1
	Accuracy	± 0.1
Calibration	Up to 3 points	
Memory	50 non-time stamped values	
IP	54	
Dimensions (cm)	24 x 18 x 11	
Weight (kg)	0.9	
Warranty	3 years	
Cat. No.	228755	
Price	N/A -	



Accessories

Cat.No.	Description	Price
262675	PH 9157 BNMD electrode	N/A -
228756	Electrode holder for ORION STAR A series	N/A -
228757	Printer for ORION STAR A series	N/A -

ORION STAR A210 Series pH/ion meters

► Economic model

► Measurement stability indicator

Orion STAR A211 delivered with:

- ROSS Ultra Triode pH electrode
- Built-in temperature probe
- Buffer solution

Orion DUAL STAR delivered with:

- ROSS Ultra pH electrode
- Temperature sensor
- Stirrer
- Buffer solution

Orion STAR A214 delivered with:

- ROSS Ultra pH electrode
- Temperature sensor
- Stirrer
- Buffer solution

	Orion STAR A211	Orion STAR A214	Orion DUAL STAR
Channel Number	1	1	2
pH	Measuring range	-2.000 to 20.000	
	Resolution	0.1 / 0.01 / 0.001	
	Accuracy	± 0.002 pH	
mV	Measuring range	-2000.0 to +2000.0	
	Resolution	0.1	
	Accuracy	± 0.2 mV or ± 0.05% of the measured value	
Temperature	Measuring range	-5.0 to +105.0 °C	
	Resolution	0.1	
	Accuracy	± 0.1 °C	
Ionometry	Measuring range	-	0.0001 to 19900 ISE (ppm, M, %, ppb)
	Resolution	-	0.0001 minimum - 1 to 3 significant digits (user configurable)
	Accuracy	-	± 0.2 mV or ± 0.05% of the measured value
Calibration	pH	Up to 5 points	
	Ionometer	-	Up to 5 points
Memory	2000 time-stamped values		1000 time-stamped values
IP	54		
Dimensions (cm)	24 x 18 x 11		24 x 17 x 9
Weight (kg)	0.9		
Warranty	3 years		
Cat. No.	228762	228763	228764
Price	N/A -	N/A -	N/A -



Electrodes

Cat.No.	Description	Price
228765	8302BNUMD ROSS Ultra pH/ATC electrode, glass body	N/A -
228766	8102BNUWP Ultra pH Electrode, Glass Body	N/A -

ORION benchtop pH / conductivity meter



- > Displays pH, mV, conductivity, TDS, salinity and resistivity
- > Display of pH and conductivity on the same screen
- > Memory: 2000 sets of points

PH range	-2.000 to 16.000
Resolution	0.1 or 0.01 or 0.001
Accuracy	± 0.002
Range mV	± 2000.0 mV
Accuracy	± 0.2 mV or ± 0.05% of the measured value
Conductivity range	0.001 µS/cm to 3000 mS/cm
Accuracy	0.5 % of reading +0.01 µS/cm (0 to 3µS/cm) 0.5% of the read value (remaining range)
Reference temperature	5; 10; 15; 20; 25 °C
Temperature range	-5.0 to 105.0 °C
Accuracy	± 0.1 °C
Port	RS232 or USB
Dimensions	240 x 180 x 100 mm
Weight	0.9 kg
Cat.No. without electrode	262954
Price	N/A -
Cat. No. with pH electrode and conductivity probe	262955
Price	N/A -

Electrodes

Cat.No.	Description	Price
262880	ROSS triode electrode with built-in temperature sensor	N/A -
262934	Duraprobe conductivity cell	N/A -

ORION STAR A120 and A320 series portable pH/ion meters



- | | |
|-----------------------------------|---------------------------------|
| Orion STAR A121 delivered with: | Orion STAR A320 delivered with: |
| • ROSS Triode pH electrode | • ROSS Ultra pH electrode |
| • Built-in temperature probe | • Built-in temperature probe |
| • Buffer solution in 60 ml bottle | • Buffer solution in sachet |

		Orion STAR A121	Orion STAR A320
pH	Measuring range	-2.00 to 16.00	-2.000 to 20.000
	Resolution	0.1 / 0.01	0.1 / 0.01 / 0.001
	Accuracy	± 0.01 pH	± 0.002 pH
mV	Measuring range	-1600.0 to +1600.0	-2000.0 to +2000.0
	Resolution	0.1	
Temperature	Accuracy	± 0.2 mV or ± 0.05% of the measured value	
	Measuring range	-5.0 to +105.0 °C	
	Resolution	0.1	
Ionometry	Accuracy	± 0.1 °C	
	Measuring range	-	0.0001 to 19900 ISE (ppm, M, %, ppb)
Calibration	Accuracy	-	± 0.2 mV or ± 0.05% of the measured value
	pH	Up to 3 points with automatic recognition of NIST and DIN buffers	Up to 5 points with automatic recognition of NIST or DIN buffers
Memory	Ionometer	-	Up to 5 points
	Memory	50 non-time stamped values	5000 time-stamped values
IP		67	
Dimensions (cm)		24 x 10 x 6.5	
Weight (kg)		0.5	
Warranty		3 years	
Cat. No.		228758	228759
Price		N/A -	N/A -

Accessories

Cat.No.	Description	Price
228760	ROSS pH 9107 BNMD ROSS Ultra pH/ATC Electrode filled with gel electrolyte	N/A -
228761	ROSS pH 8107 UWMMD Ultra pH Electrode electrolyte gel body	N/A -

ANALYSIS AND MEASUREMENTS

Standard refractive index solutions

- Standard refractive index solution based on sucrose or solvent
- Long shelf life at room temperature (sucrose 1 year, solvent 2 years)
- Refractive index from 1.33299 to 1.65808
- Maximum uncertainty of 0.00014
- ISO/IEC 17025 certified products for refractive indices between 1.33310 and 1.65812
- Certificates available on request



Standard sucrose solutions			Standard solvent-based solutions					
Refractive index value at 20 °C	Cat.No	Price	Refractive index value at 20 °C	Cat.No	Price	Refractive index value at 20 °C	Cat.No	Price
1.33299	440558	N/A -	1.37233	440568	N/A -	1.38779	440593	N/A -
1.34026	440559	N/A -	1.38115	440569	N/A -	1.40485	440594	N/A -
1.34325	440560	N/A -	1.39032	440570	N/A -	1.42345	440595	N/A -
1.34782	440561	N/A -	1.39986	440571	N/A -	1.44468	440596	N/A -
1.34968	440562	N/A -	1.40978	440572	N/A -	1.46768	440597	N/A -
1.35015	440563	N/A -	1.42009	440573	N/A -	1.49672	440598	N/A -
1.35093	440564	N/A -	1.4308	440574	N/A -	1.50044	440599	N/A -
1.35171	440565	N/A -	1.44193	440575	N/A -	1.51726	440600	N/A -
1.35568	440566	N/A -	1.46546	440576	N/A -	1.5366	440604	N/A -
1.36384	440567	N/A -	-	-	-	1.65808	-	-

Honeywell Buffer solutions

- Coloured and uncoloured solutions
- PH solution at 20 °C
- Accuracy: +/- 0.02

Cat. No.	PH value	Composition	Colour	Traceable NIST	Pack.	Price
31046-1L-HON	3	Citric acid/sodium hydroxide/sodium chloride with fungicide	-	√	1 litre	N/A -
33665-500ML-HON	4	Citric acid/sodium hydroxide/sodium chloride with fungicide	Red	-	500 ml	N/A -
33643-500ML-HON	4		-	√	500 ml	N/A -
33665-1L-HON	4		Red	-	1 litre	N/A -
33643-1L-HON	4		-	√	1 litre	N/A -
38743-1EA-HON	4	Citric acid/ sodium hydroxide/ concentrated sodium chloride	-	-	1 ampoule for 500 ml	N/A -
33545-1L-HON	6	Citric acid / sodium hydroxide	-	√	1 litre	N/A -
33666-500ML-HON	7	Potassium dihydrogen phosphate/disodium hydrogen phosphate with fungicide	Green	-	500 ml	N/A -
33646-500ML-HON	7		-	√	500 ml	N/A -
33666-1L-HON	7		Green	-	1 litre	N/A -
33646-1L-HON	7		-	√	1 litre	N/A -
38746-1EA-HON	7	Potassium dihydrogen phosphate/disodium hydrogen phosphate concentrate	-	-	1 ampoule for 500 ml	N/A -
33648-1L-HON	9	Borax / hydrochloric acid	-	√	1 litre	N/A -
33649-500ML-HON	10	Borax / sodium hydroxide	-	-	500 ml	N/A -
33668-500ML-HON	10		Violet	-	500 ml	N/A -
33649-1L-HON	10		-	-	1 litre	N/A -
33668-1L-HON	10		Violet	-	1 litre	N/A -

Buffer solutions



PH value	Cat. No.	Coloured	Pack.	Price
1	486211-CER	-	500 ml	N/A -
1	486221-CER	-	Plastic vial To be diluted in 500 ml	N/A -
2	486231-CER	-	500 ml	N/A -
3	486251-CER	-	500 ml	N/A -
3	486252-CER	-	1 l	N/A -
4	486271-CER	-	500 ml	N/A -
4	486273-CER	-	1 l	N/A -
4	486761-CER	Red	500 ml	N/A -
4	486762-CER	Red	1 l	N/A -
4	486281-CER	-	Plastic vial To be diluted in 500 ml	N/A -
4	486291-CER	Red	Plastic vial To be diluted in 500 ml	N/A -
5	486311-CER	-	500 ml	N/A -
5	486301-CER	-	Plastic vial To be diluted in 500 ml	N/A -
6	486331-CER	-	500 ml	N/A -
6.88	486871-CER	-	500 ml	N/A -
7	486451-CER	-	500 ml	N/A -
7	486453-CER	-	1 l	N/A -
7	486791-CER	Green	500 ml	N/A -
7	486792-CER	Green	1 l	N/A -
7	486421-CER	-	Plastic vial To be diluted in 500 ml	N/A -
7	486431-CER	Green	Plastic vial To be diluted in 500 ml	N/A -

PH value	Cat. No.	Coloured	Pack.	Price
8	486541-CER	-	500 ml	N/A -
8	486542-CER	-	1 l	N/A -
8	486531-CER	-	Plastic vial To be diluted in 500 ml	N/A -
9	486591-CER	-	500 ml	N/A -
9	486593-CER	-	1 l	N/A -
9	PS0427-19-CER	Blue	500 ml	N/A -
9	PS0427-15-CER	Blue	1 l	N/A -
9	486571-CER	-	Plastic vial To be diluted in 500 ml	N/A -
9.22	486881-CER	-	500 ml	N/A -
10	486611-CER	-	500 ml	N/A -
10	486613-CER	-	1 l	N/A -
10	486601-CER	-	Plastic vial To be diluted in 500 ml	N/A -
11	486771-CER	-	500 ml	N/A -
11	486772-CER	-	1 l	N/A -
12	486691-CER	-	500 ml	N/A -
12	486621-CER	-	Plastic vial To be diluted in 500 ml	N/A -
13	486701-CER	-	500 ml	N/A -
13	486641-CER	-	Plastic vial To be diluted in 500 ml	N/A -

Reagecon Buffer solutions

Reagecon coloured or transparent uncoloured buffer solutions. ISO 17025. Certified



PH level	Uncoloured transparent								Coloured								
	pH at 20 °C				pH at 25 °C				pH at 20 °C				pH at 25 °C				
	500 ml	Price	1000 ml	Price	500 ml	Price	1000 ml	Price	Colour	500 ml	Price	1000 ml	Price	500 ml	Price	1000 ml	Price
pH 1.00 ± 0.02	440400	N/A	440401	N/A	440430	N/A	440431	N/A	-	-	-	-	-	-	-	-	-
pH 2.00 ± 0.02	440402	N/A	440403	N/A	440432	N/A	440433	N/A	-	-	-	-	-	-	-	-	-
pH 3.00 ± 0.02	440404	N/A	440405	N/A	440434	N/A	440435	N/A	-	-	-	-	-	-	-	-	-
pH 3.00 ± 0.01	440406	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH 4.00 ± 0.01	440407	N/A	440408	N/A	440436	N/A	440437	N/A	Red	440460	N/A	440461	N/A	440466	N/A	440467	N/A
pH 4.00 ± 0.01 phthalate-free	-	-	-	-	440438	N/A	440439	N/A	-	-	-	-	-	-	-	-	-
pH 5.00 ± 0.01	440409	N/A	440410	N/A	440440	N/A	440441	N/A	-	-	-	-	-	-	-	-	-
pH 6.00 ± 0.01	440411	N/A	440412	N/A	440442	N/A	440443	N/A	-	-	-	-	-	-	-	-	-
pH 6.80 ± 0.01	440413	N/A	440414	N/A	440444	N/A	440445	N/A	-	-	-	-	-	-	-	-	-
pH 7.00 ± 0.01	440415	N/A	440416	N/A	440446	N/A	440447	N/A	Yellow	440462	N/A	440463	N/A	440468	N/A	440469	N/A
pH 8.00 ± 0.01	440417	N/A	440418	N/A	440448	N/A	440449	N/A	-	-	-	-	-	-	-	-	-
pH 9.00 ± 0.01	440419	N/A	440420	N/A	440450	N/A	440451	N/A	-	-	-	-	-	-	-	-	-
pH 9.20	-	-	440421	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
pH 10.00 ± 0.01	440422	N/A	440423	N/A	440452	N/A	440453	N/A	Blue	440464	N/A	440465	N/A	440470	N/A	440471	N/A
pH 11.00 ± 0.05	440424	N/A	440425	N/A	440454	N/A	440455	N/A	-	-	-	-	-	-	-	-	-
pH 12.00 ± 0.05	440426	N/A	440427	N/A	440456	N/A	440457	N/A	-	-	-	-	-	-	-	-	-
pH 13.00 ± 0.05	440428	N/A	440429	N/A	440458	N/A	440459	N/A	-	-	-	-	-	-	-	-	-

Coloured in Twin neck bottle

- Convenient shape: for measurement in a reservoir inside the bottle - without contamination with the rest of the bottle
- Easy to transport
- For use in the field



PH level	Colour	pH at 20 °C						pH at 25 °C					
		250 ml	Price	500 ml	Price	1000 ml	Price	250 ml	Price	500 ml	Price	1000 ml	Price
pH 4.00 ± 0.01	Red	440472	N/A	440473	N/A	440474	N/A	440481	N/A	440482	N/A	440483	N/A
pH 7.00 ± 0.014	Yellow	440475	N/A	440476	N/A	440477	N/A	440484	N/A	440485	N/A	440486	N/A
pH 10.00 ± 0.01	Blue	440478	N/A	440479	N/A	440480	N/A	440487	N/A	440488	N/A	440489	N/A

Coloured in capsules



- Tested at 25 °C
- NIST traceability
- Colour code
- Easy to dissolve: 1 capsule dissolves in 100 ml of water
- Easy to transport

Cat.No	Description	Colour	Units/box	Price/box
440490	Capsule buffer pH 4.01 ± 0.02 at 25 °C	Orange	50	N/A
440491	Capsule Buffer pH 7.00 ± 0.02 at 25 °C	Green	50	N/A
440492	Capsule Buffer pH 9.00 ± 0.02 at 25 °C	Violet	50	N/A
440493	Capsule Buffer pH 10.00 ± 0.02 at 25 °C	Blue	50	N/A
440494	Tampon in capsule pack: 10 x pH 4.01 / 20 x pH 7.00 / 10 x pH 9.00 / 10 x pH 10.00 ± 0.02 at 25 °C	-	50	N/A

