

AH diagnostics



OUR BRANDS



The Dutscher Group brands

Dear customers,

We are delighted to introduce you to the brands of the Dominique Dutscher Group, all gathered in this brochure.

The Dominique Dutscher Group's brands cover a range of laboratory consumables (tips, filter tips, cryotubes, microtubes, etc.) and benchtop equipment with common benefits:

- premium quality to the highest standards;
- Dominique Dutscher's control of the manufacturing process and strict compliance with the specifications;
- technical advantages: all ClearLine® products feature unique characteristics that provide additional safety and ease of use;
- exceptional value for money.

Please do not hesitate to contact us.



For guidance and ordering

Contact AH diagnostics for product support and ordering.



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ClearLine® standard cell culture flasks

ClearLine



- Polystyrene crystal bottles
- Easy stacking
- Packaged in peelable bags
- Certificates available on request
- Printing of batch number and expiry date on each bottle
- Model with filter cap: with hydrophobic membrane, prevents the passage of bacteria, spores and particles larger than 0.2 µm

Part no.	Type of collar	Type of cap	Treatment	Units/bag	Units/box	€/ box
25 cm ² surface area						
131000C	Inclined	Standard	TC	10	200	NC -
131006C	Inclined	Filtering	TC	10	200	NC -
75 cm ² surface area						
131002C	Inclined	Standard	TC	5	100	NC -
131008C	Inclined	Filtering	TC	5	100	NC -
175 cm ² surface area						
131004C	Inclined	Standard	TC	5	40	NC -
131010C	Inclined	Filtering	TC	5	40	NC -

ClearLine® Petri culture dish

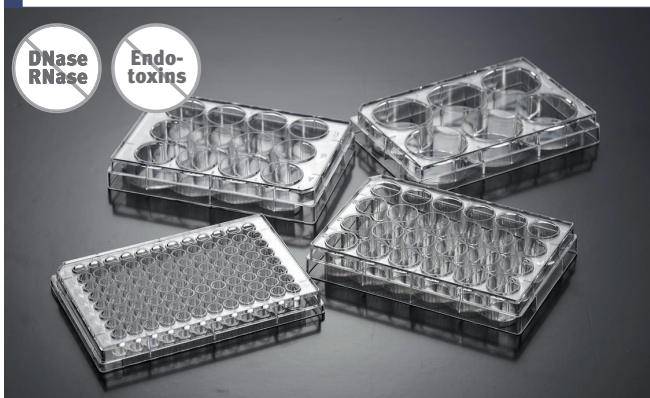
ClearLine



- In peelable bags
- Sterilised by gamma rays
- Certified endotoxin levels below 0.5 EU/ml
- Certificates available on request

Part no.	ext Ø x ext. h (mm)	Treatment	Units/bag	Units/box	€/ box
Ø 35 mm					
131046C	37.8 x 12.5	TC	10	960	NC -
Ø 60 mm					
131048C	58.8 x 17.8	TC	10	600	NC -
Ø 100 mm					
131050C	95.6 x 22	TC	10	300	NC -
Ø 150 mm					
131052C	143 x 21.9	TC	10	120	NC -

ClearLine® transparent multi-well plates and microplates



- Polystyrene
- Sterilised by gamma rays
- Alphanumeric marking
- Notched corners
- Certified endotoxin level < 0,5 EU/ml
- With lid

Part no.	Number of wells	Bottom type	Treatment	Units/bag	Units/box	€/ box
131028C	6	Flat	TC	1	100	NC -
131024C	12	Flat	TC	1	100	NC -
131020C	24	Flat	TC	1	100	NC -
131019C	48	Flat	TC	1	100	NC -
131012C	96	Flat	TC	1	100	NC -

ClearLine® cell scrapers

ClearLine



- Individual sterile packaging
- ABS handle and TPE blade

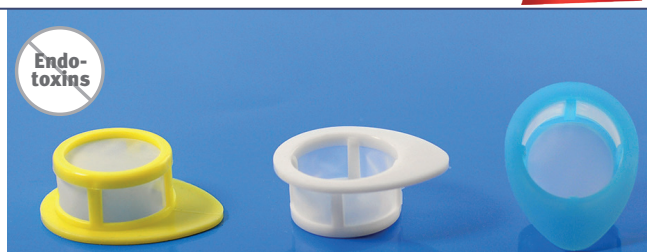
Part no.	Handle length (cm)	Blade length (mm)	Packaging unit	Units/box	€/ box
131054C	25	20	1	100	NC -
131056C	39	30	1	100	NC -

ClearLine® Cell Strainers



■ Sterile

Part no.	Pore size (µm)	Colour code	For tubes	Pack. unit	Units/box	€/box
141378C	40	Blue	50 ml	1	50	NC -
141379C	70	White	50 ml	1	50	NC -
141380C	100	Yellow	50 ml	1	50	NC -



DD range - Serum



Fetal calf serum

Part no.	Origin	Vol. (ml)	€
S1810-100	South America	100	NC -
S1810-500	South America	500	NC -
S1650-100	Mexico, USDA approved	100	NC -
S1650-500	Mexico, USDA approved	500	NC -
S1520-100	USA	100	NC -
S1520-500	USA	500	NC -
S1710-500	New Zealand	500	NC -
S1400-100	Ireland	100	NC -
S1400-500	Ireland	500	NC -

Animal serum

Part no.	Origin	Vol. (ml)	€
S0250-500	Bovine (French origin)	500	NC -
S0400-500	Calf	500	NC -
S0400-1000	Calf	1000	NC -
S0750-100	Newborn calf	100	NC -
S0750-500	Newborn calf	500	NC -
S0900-100	Donor horse	100	NC -
S0900-500	Donor horse	500	NC -
S0910-100	Horse	100	NC -
S0910-500	Horse	500	NC -
S0800-100	Donor Foal	100	NC -
S2170-100	Donkey	100	NC -
S2170-500	Donkey	500	NC -
S2000-100	Goat	100	NC -
S2000-500	Goat	500	NC -
S2350-100	Sheep	100	NC -
S2350-500	Sheep	500	NC -
S2400-100	Pig	100	NC -
S2400-500	Pig	500	NC -
S0500-100	Hen	100	NC -
S0500-500	Hen	500	NC -
S2500-100	Rabbit (French origin)	100	NC -
S2500-500	Rabbit (French origin)	500	NC -
S2150-010	Rat	10	NC -
S2150-100	Rat	100	NC -
S2160-100	mouse	100	NC -

Fetal calf serum with treatment: South American origin

Part no.	Treatment	Vol. (ml)	€	Part no.	Treatment	Vol. (ml)	€
S181H-100	Heat inactivated	100	NC -	S181L-100	Lipid Depleted	100	NC -
S181H-500	Heat inactivated	500	NC -	S181L-500	Lipid Depleted	500	NC -
S181F-100	Carbon adsorption	100	NC -	S181T-100	Without tetracycline	100	NC -
S181F-500	Carbon adsorption	500	NC -	S181T-500	Without tetracycline	500	NC -
S181D-100	Dialysed	100	NC -	S181R-100	Iron supplemented	100	NC -
S181D-500	Dialysed	500	NC -	S181R-500	Iron supplemented	500	NC -
S181I-500	Depleted IgG	500	NC -	S181R-500	ES Cells	100	NC -
S181M-500	Exosome Depleted	500	NC -	S181R-500	ES Cells	500	NC -

SVF Ultra low endotoxins

- South American origin
- Endotoxin levels < 0.1 EU/ml

Part no.	Volume (ml)	€
S1860-100	100	NC -
S1860-500	500	NC -

SVF Premium

- Reproducible from batch to batch
- Growth > 80%
- Saves time, without testing
- Non-samplable
- Endotoxin levels < 5 EU/ml
- Hemoglobin levels < 25 mg /100 ml

Part no.	Volume (ml)	€
S181B-500	500	NC -

Human serum and plasma

Animal plasma

Part no.	Designation	Vol. (ml)	€
S0260-500	Bovine with sodium citrate	500	NC -
S2600-500	Rabbit with EDTA	500	NC -

Human AB male serum HIV tested

Part no.	Volume (ml)	€
S4190-100	100	NC -

Human plasma pool

Part no.	Volume (ml)	€
S4180-100	100	NC -
S4180-500	500	NC -

Human serum HIV tested

Part no.	Volume (ml)	€
S4200-100	100	NC -



BSA (bovine serum albumin)

DD range - Lyophilised PH-7 BSA

Quantity	BSA		Protease free		Fatty acid free	
	Part no.	€	Part no.	€	Part no.	€
10 g	P6154-10GR	NC -	-	-	-	-
100 g	P6154-100GR	NC -	P6155-100GR	NC -	P6156-100GR	NC -
500 g	P6154-500GR	NC -	P6155-500GR	NC -	-	-

DD range - BSA In 30% solution

Part no.	Designation	Vol. (ml)	€
A0296-100	BSA 30 %	100	NC -

DD range - Culture media

DMEM with phenol red

High glucose 4.5 g/l

L-Glutamine	HEPES	NaHCO ₃	Sodium pyruvate	Part no.	Volume	€
Solution						
-	25 mM	√	-	L0100-500	500 ml	NC -
-	-	√	-	L0101-500	500 ml	NC -
√	-	√	-	L0102-500	500 ml	NC -
Stable	-	√	√	L0103-500	500 ml	NC -
√	-	√	√	L0104-500	500 ml	NC -
-	-	√	√	L0106-500	500 ml	NC -
Stable	25 mM	√	-	L0107-500	500 ml	NC -
Powder						
√	-	-	√	P0102-N1L	1 l	NC -
√	-	-	-	P0103-N1L	1 l	NC -

Low glucose 1 g/l

L-Glutamine	HEPES	NaHCO ₃	Sodium pyruvate	Part no.	Volume	€
Solution						
√	-	√	√	L0060-500	500 ml	NC -
-	-	√	√	L0064-500	500 ml	NC -
√	25mM	√	√	L0065-500	500 ml	NC -
Stable	-	√	√	L0066-500	500 ml	NC -
Powder						
√	-	-	√	P0061-N1L	1 l	NC -

DMEM-HAM'S F12 with phenol red

L-Glutamine	HEPES	NaHCO ₃	Sodium pyruvate	Part no.	Volume	€
Solution						
-	-	√	√	L0090-500	500 ml	NC -
-	-	√	√	L0091-500*	500 ml	NC -
Stable	15 mM	√	√	L0092-500	500 ml	NC -
√	15 mM	√	√	L0093-500	500 ml	NC -
-	15 mM	√	√	L0094-500	500 ml	NC -
√	25 mM	√	√	L0095-500	500 ml	NC -
-	25 mM	√	√	L0096-500	500 ml	NC -
Powder						
√	15 mM	-	√	P0095-N1L	1 l	NC -

* Glucose free

BME BASAL MEDIUM EAGLE

Earle's Salt	Hank's Salt	L-Glutamine	HEPES	NaHCO ₃	Part no.	Volume	€
Solution with phenol red							
√	-	-	-	√	L0042-500	500 ml	NC -

GLASCOW MEM BHK21

L-Glutamine	Part no.	Volume	€
Powdered - without tryptose phosphate broth			
√	P0120-N1L	1 l	NC -

HAM'S F10

L-Glutamine	HEPES	NaHCO ₃	Part no.	Volume	€
Solution with phenol red					
√	-	√	L0140-500	500 ml	NC -
-	-	√	L0145-500	500 ml	NC -
Powder					
√	-	-	P0146-N1L	1 l	NC -

HAM'S F12

L-Glutamine	NaHCO ₃	Part no.	Volume	€
Solution with phenol red				
√	√	L0135-500	500 ml	NC -
-	√	L0136-500	500 ml	NC -
Powder				
√	-	P0134-N1L	1 l	NC -

IMDM (Dulbecco's modified Iscove medium) with phenol red

L-Glutamine	HEPES	NaHCO ₃	Part no.	Volume	€
Solution					
√	25 mM	√	L0190-500	500 ml	NC -
Stable	25 mM	√	L0191-500	500 ml	NC -
-	-	√	L0192-500	500 ml	NC -
Powder					
√	25 mM	-	P0191-N1L	1 l	NC -

LEIBOVITZ L15

Part no.	Volume	€
In solution without L-glutamine with phenol red		
L0300-500	500 ml	NC -
Powder with L-Glutamine		
P0350-N1L	1 l	NC -

McCOY'S 5A

Part no.	Volume	€
Solution without L-Glutamine		
L0210-500	500 ml	NC -
Powder with L-Glutamine, without NaHCO ₃		
P0390-N1L	1 l	NC -



Tip

Powder also available in 10 l and 50 l



DD range - Culture media

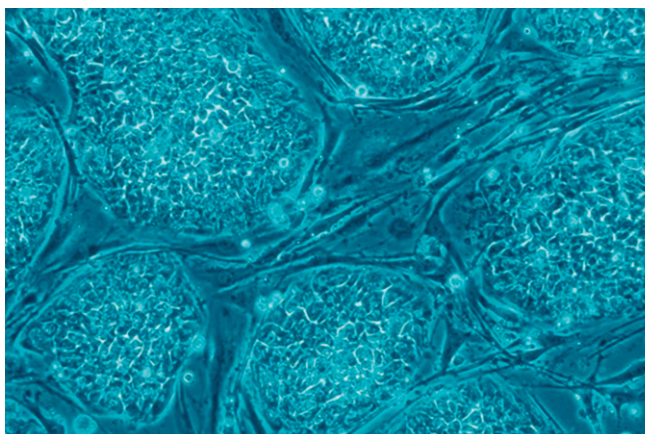
MEM (Minimum Essential Medium)

L-Glutamine	Earle's Salt	Hank's Salt	NEAA	HEPES	NaHCO ₃	Part no.	Volume	€
Solution with phenol red								
√	√	-	-	-	√	L0415-500	500 ml	NC -
Stable	√	-	-	-	√	L0416-500	500 ml	NC -
-	√	-	√	-	√	L0430-500	500 ml	NC -
-	√	-	-	-	√	L0440-500	500 ml	NC -
√	√	-	-	25 mM	√	L0444-500	500 ml	NC -
-	-	√	-	25 mM	√	L0470-500	500 ml	NC -
Powder								
√	√	-	√	-	-	P0450-N1L	1 l	NC -
√	√	-	-	-	-	P0451-N1L	1 l	NC -
√	-	√	√	-	-	P0515-N1L	1 l	NC -



MEM modified ALPHA

L-Glutamine	NaHCO ₃	Part no.	Volume	€
Solution without ribonucleosides and deoxyribonucleosides				
√	√	L0475-500	500 ml	NC -
-	√	L0476-500	500 ml	NC -
Powder with Earle's salt				
√	-	P0440-N1L	1 l	NC -



RMPI 1640

L-Glutamine	HEPES	Phenol red	NaHCO ₃	Part no.	Volume	€
Solution						
√	-	√	√	L0500-100	100 ml	NC -
√	-	√	√	L0500-500	500 ml	NC -
-	-	√	√	L0501-100	100 ml	NC -
-	-	√	√	L0501-500	500 ml	NC -
Stable	-	√	√	L0498-500	500 ml	NC -
√	25 mM	√	√	L0495-500	500 ml	NC -
Stable	25 mM	√	√	L0496-500	500 ml	NC -
-	25 mM	√	√	L0490-500	500 ml	NC -
-	-	√	√	L0503-500*	500 ml	NC -
-	-	-	√	L0505-500	500 ml	NC -
Powder						
√	-	√	-	P0860-N1L	1 l	NC -
-	-	√	-	P0870-N1L	1 l	NC -
√	-	-	-	P0880-N1L	1 l	NC -
-	-	-	-	P0871-N1L	1 l	NC -
√	25 mM	-	-	P0876-N1L	1 l	NC -
√	-	-	-	P0883-N1L	1 l	NC -

* without folic acid.

M199 with phenol red

L-Glutamine	Earle's Salt	Hank's Salt	NaHCO ₃	HEPES	Part no.	Volume	€
Solution							
√	-	√	√	-	L0330-500	500 ml	NC -
√	√	-	1.25 g/l	-	L0355-500	500 ml	NC -
-	√	-	√	-	L0356-500	500 ml	NC -
Stable	√	-	√	√	L0361-500	500 ml	NC -
Powder							
-	-	√	-	-	P0410-N1L	1 l	NC -
√	√	-	-	-	P0420-N1L	1 l	NC -
√	√	-	-	25 mM	P0425-N1L	1 l	NC -

Dutscher Range



Schneider drosophila medium

DD range Schneider medium for drosophila

Part no.	Vol.	€
L0207-500	500 ml	NC -



DD range - Buffered saline solutions



PBS without calcium, without magnesium

- Sterile, filtered
- pH 7.4 +/- 0.3
- No potassium chloride
- Endotoxins < 1 EU/ml

Part no.	Volume	€
L0616-500	500 ml	NC -

EBSS - Earle's balanced salt solution, phenol red

Part no.	Designation	Volume	€
L0601-500	Without calcium without magnesium	500 ml	NC -
EBSS 10x without sodium bicarbonate			
X0112-500	With calcium with magnesium	500 ml	NC -
X0113-500	Without calcium without magnesium	500 ml	NC -

HEPES

Part no.	Designation	€
L0180-100	HEPES 1M Buffer - 100 ml	NC -
L0180-500	HEPES 1M Buffer - 500 ml	NC -

Culture reagents: glutamine, amino acids

Dutscher Range



Reagents	Part no.	Vol. (ml)	€
GLUTAMINE - 200 Mm	X0550-100	100	NC -
GLUTAMINE Stable - 200 mM	X0551-100	100	NC -
Vitamins			
MEM 100 x with glutamine	X0556-100	100	NC -
MEM NEAA 100 X without glutamine	X0557-100	100	NC -

DPBS

Part no.	Volume	€
DPBS without calcium, without magnesium		
L0615-100	100 ml	NC -
L0615-500	500 ml	NC -
L0615-1000	1 l	NC -
L0615-C10LS	10 l	NC -
DPBS 10 x without calcium, without magnesium		
X0515-500	500 ml	NC -
X0515-100	100 ml	NC -
X0515-C10LS	10 l	NC -
DPBS, 10 x with calcium, with magnesium		
X0520-500	500 ml	NC -
DPBS powder without calcium, without magnesium		
P0750-N1L	1 l	NC -
P0750-N10L	10 l	NC -

HBSS - Hank's balanced salt solution

Part no.	Calcium	Magnesium	Sodium bicarbonate	Phenol red	Volume (ml)	€
L0605-500	-	-	-	-	500 ml	NC -
L0606-500	√	√	√	√	500 ml	NC -
L0607-500	-	-	√	-	500 ml	NC -
L0611-500	-	-	√	√	500 ml	NC -
L0612-500	√	√	√	-	500 ml	NC -
HBSS 10X						
X0507-500	-	-	-	-	500 ml	NC -
X0509-500	√	√	-	√	500 ml	NC -
X0510-500	-	-	√	-	500 ml	NC -
X0513-500	-	-	-	√	500 ml	NC -

Other salts and buffer solutions

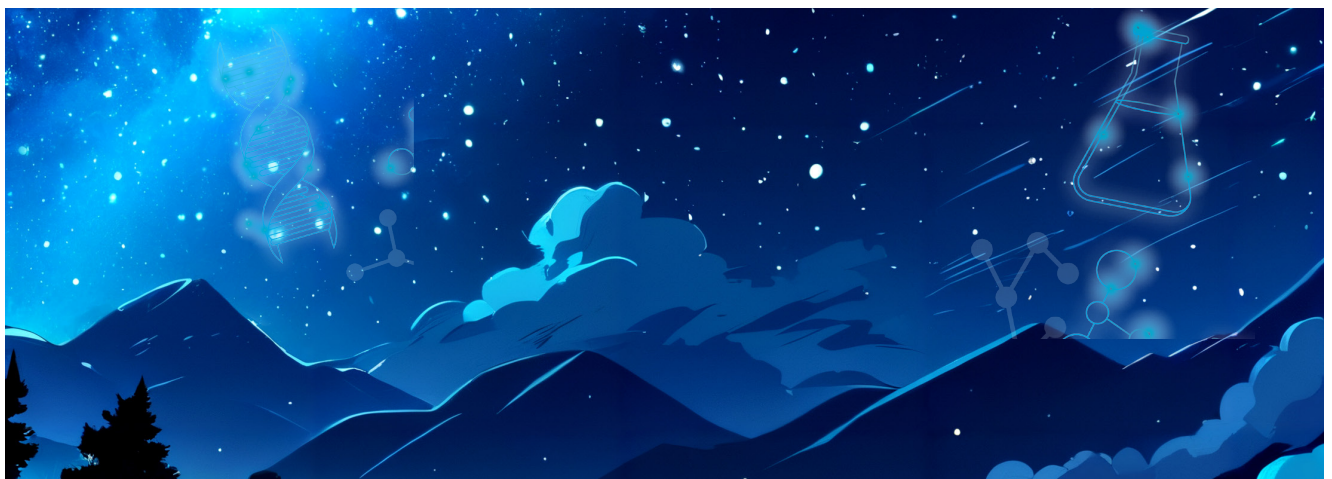
Part no.	Designation	€
L0640-500	Sodium chloride saline solution 0.85% - 500 ml	NC -
L0643-100	Potassium chloride 0.075 M - 100 ml	NC -
L0643-500	Potassium chloride 0.075 M - 500 ml	NC -
P2035-500GR	Potassium Chloride - 500 g	NC -
L0680-100	Sodium bicarbonate 7.5% - 100 ml	NC -
L0680-500	Sodium bicarbonate 7.5% - 500 ml	NC -
P2060-500GR	Sodium bicarbonate, cell culture tested - 500 g	NC -

Supplements

Dutscher Range



Reagents	Part no.	Vol. (ml)	€
Colcemid 10 µg/ml	L0040-010	10	NC -
	L0040-020	20	NC -
	L0040-050	50	NC -
Sodium Pyruvate - 100 mM	L0642-100	100	NC -
	L0642-500	500	NC -



Antibiotics solution

Designation	Concentration	Volume	Dutscher	
			Part no.	€
Amphotericin b (Fungizone)	250 µg/ml	50 ml	L0009-050	NC -
		100 ml	L0009-100	NC -
Antibiotic-Antimycotic	100X	20 ml	L0010-020	NC -
		100 ml	L0010-100	NC -
Blasticidin S Hcl	-	50 ml	-	-
G 418 sulphate	50 mg/ml	20 ml	L0015-020	NC -
		100 ml	L0015-100	NC -
Gentamycin Sulphate	10 mg/ml	10 ml	L0011-010	NC -
		50 ml	-	-
		100 ml	L0011-100	NC -
		10 ml	L0012-010	NC -
50 mg/ml	50 ml	-	-	
	100 ml	L0012-100	NC -	
	20 ml	-	-	
Hygromycin B	50 mg/ml	100 ml	-	-
		50 ml	-	-
		100 ml	-	-
Kanamycin Sulphate	5 mg/ml	50 ml	-	-
		100 ml	-	-
	10 mg/ml	50 ml	-	-
		100 ml	-	-
50 mg/ml	50 ml	-	-	
	100 ml	-	-	
Antibiotic mixture in 8.5 Nacl	-	50 ml	-	-
		100 ml	-	-
Amphotericin	25 µg/ml	-	-	-
Penicillin	10,000 µl/ml	-	-	-
Streptomycin	100,000 µg/ml	-	-	-
Nanomycolipulitine concentrate	20 X	10 ml	L-X16-010	NC -
		100 ml	L-X16-100	NC -
Neomycin Sulphate	10 mg/ml	50 ml	-	-
		100 ml	-	-
Nyastatin solution	10,000 U/ml	100 ml	-	-
Penicillin-Streptomycin	-	100 ml	L0018-100	NC -
Penicillin/Streptomycin 5000 µl/ml - 5000 µg/ml	50 X	100 ml	-	-
Penicillin/ Streptomycin 10000 U - 10 mg/ml	100 X	20 ml	L0022-020	NC -
		50 ml	-	-
		100 ml	L0022-100	NC -

Antibiotic powder

Designation	Volume	Dutscher	
		Part no.	€
Amphotericin b (Fungizone)	25 mg	-	-
	50 mg	-	-
	100 mg	-	-
G 418 sulphate	1 g	P0017-1GR	NC -
	5 g	P0017-5GR	NC -
Gentamycin Sulphate	1 g	P4020-1GR	NC -
	5 g	P4020-5GR	NC -
Hygromycin B	50 mg	-	-
Kanamycin	10 g	-	-
Penicillin G sodium salt	1 million units	P0018-1MU	NC -
Penicillin G potassium salt	25 g	-	-
Puromycin dihydrochlorin	0.1 g	-	-
Streptomycin Sulphate	50 g	-	-

MYCOKIT BOX

- Mycoplasma PCR and electrophoresis detection
- Ready to use
- Sensitive and specific detection
- Product shelf life 36 months

Part no.	Volume	€
K1000	20 tests	NC -

Mycoplasma prevention: incubator and surface

Biogard A disinfectant for CO₂ incubator water tank

- Non-toxic, non-volatile
- Compatible with stainless steel

Part no.	Designation	Volume	€
500177	Biogard A disinfectant for waterbaths and CO ₂ incubators	100 ml	NC -

DD Range



Trypsin calcium free magnesium free - solution

Part no.	Designation	Phenol red	Vol. (ml)	€
L0909-100	Trypsin 0.25% in PBS	√	100	NC -
L0910-100	Trypsin 0.25% in PBS		100	NC -
L0930-100	Trypsin-EDTA 1X in PBS	√	100	NC -
L0930-500	Trypsin-EDTA 1X in PBS	√	500	NC -
L0931-100	Trypsin 0.25% - EDTA in HBSS	√	100	NC -
L0932-100	Trypsin 0.25% - EDTA 0.02 % in HBSS	√	100	NC -
X0915-100	Trypsin 2.5% in PBS		100	NC -
L0940-100	Trypsin-EDTA 1X in PBS		100	NC -
X0930-100	Trypsin -EDTA 10X		100	NC -
X0920-100	Trypsin 2.5% in HBSS		100	NC -

Trypsin - powder

Part no.	Designation	Weight	€
P5957-100GR	Trypsin 1:250 powder (porcine)	100 g	NC -

Versene

Part no.	Designation	€
L0630-100	Versene - 100 ml	NC -

Accutase

- Alternative to trypsin
- Detachment and dissociation of adherent cells, without mammalian compounds

Part no.	Volume	Storage T°	€
L0950-100	100 ml	-20 °C	NC -

DD Range



Sterile, filtered, non-pyrogenic cell culture water.

Part no.	Vol. (ml)	€
L0970-100	100	NC -
L0970-500	500	NC -
L0970-1000	1000	NC -

Lymphocyte separation media



Part no.	Designation	Vol. (ml)	€
L0560-100	Lymphocyte separation medium	100	NC -
L0560-500	Lymphocyte separation medium	500	NC -

PHA-M (Phytohaemagglutinin)



- Stimulates proliferation of lymphocytes in culture
- Also used to separate leukocytes from whole blood

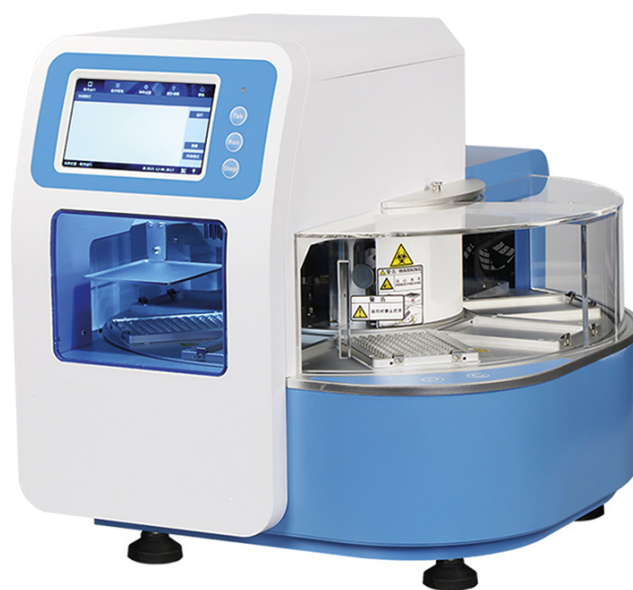
Part no.	Designation	Vol.	€
L3010-005	Phytohaemagglutinin liquid	5 ml	NC -

MagnetaPure automated nucleic acid purification system

- Automated systems for the purification of DNA, RNA, proteins and cells from a wide variety of samples such as blood, bacteria, tissue, body fluids and plants
- Magnetic separation technology for high throughput and high quality extraction without cross-contamination between samples or reagent transfers
- Extraction of up to 96 samples simultaneously
- Reaction volume from 30 µl to 1 ml
- Fast extraction cycle: 20 to 60 minutes
- Intuitive touch screen
- Heating function for optimal lysis and elution
- UV lamp for decontamination of the automat
- Ready-to-use programs for a wide range of protocols



255744



255745

Model	MagnetaPure 32 Plus	MagnetaPure 96
Number of samples	1 to 32	1 to 96
Sample volume per well	30 µl to 1 ml	50 µl to 1 ml
Heating temperature	Ambient at 120 °C	Ambient at 120 °C
Screen	7" touchscreen	7" touchscreen
Storage capacity	Up to 500 programmes	Up to 100 programmes
Extraction steps	Lysis, retention, washing, elution	Lysis, retention, washing, elution
Connection	4 USB ports and ethernet	4 USB ports and ethernet
Sterilization	UV lamp	UV lamp
Barcode scanner	No	No
Max. supply voltage (W)	450	450
Dimensions L x D x H (mm)	42 x 41 x 43	56 x 62 x 50
Weight (kg)	20	54
Part no.	255744	255745
€	NC -	NC -

Associated consumables

	Part no.	Designation	Units/box	€/box
MagnetaPure 32 Plus	531557B	Deepwell 96-well plate	50	NC -
	531565B	Comb 8 teeth	200	NC -
MagnetaPure 96	531557B	Deepwell 96-well plate	50	NC -
	531556B	Comb 96 teeth	100	NC -
	531558B	96-well elution plates	100	NC -

ClearSub horizontal electrophoresis cells

ClearLine

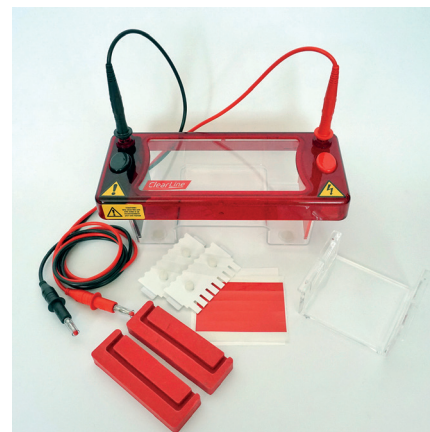
- Injection moulded, durable, leak-proof tank designed to minimise the volume of buffer required
- Each system is supplied with: an electrophoresis tank, a safety cover, one or two (DUO model) or three (TRIO model) casting trays, two combs, deposition guides and the casting walls to transform the tray into a casting system
- Many optional combs
- 4 sizes available:
 - ClearSub S: for 7 cm wide gels (up to 64 samples)
 - ClearSub M: for 10 cm wide gels (up to 100 samples)
 - ClearSub L: for 15 cm wide gels (up to 210 samples)
 - ClearSub XL: for 20 cm wide gels (up to 450 samples)



ClearSub S System

- Gels of size 7 x 7 and/or 7 x 10 cm

	ClearSub S7	ClearSub S10	ClearSub SDUO
Maximum number of samples	32	64	32; 64
Gel size / number of trays supplied	7 x 7 cm / 1	7 x 10 cm / 1	7 x 7 cm / 1; 7 x 10 cm / 1
Combs supplied	2 combs with 8 teeth, thickness 1 mm		
Max. number of combs per tray	2	4	2; 4
Buffer volume (ml)	225		
Typical migration condition	80 V, 45 - 60 minutes		
System dimensions (cm)	21 x 9 x 9		
Max. electric power (W)	10		
Part no.	257281	257282	257283
€	NC -	NC -	NC -



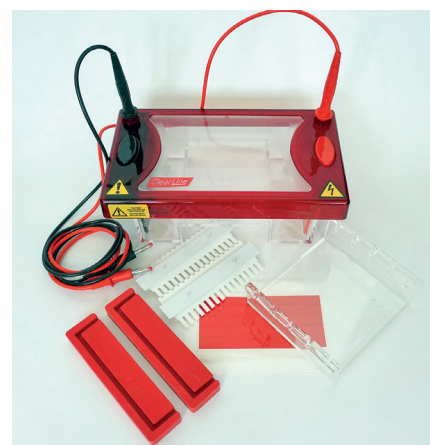
Combs for ClearSub S

Number of teeth	Tooth thickness: 0.75 mm			Tooth thickness: 1 mm			Tooth thickness: 1.5 mm			Tooth thickness: 2 mm		
	Sample volume (µl)	Part no.	€	Sample volume (µl)	Part no.	€	Sample volume (µl)	Part no.	€	Sample volume (µl)	Part no.	€
1	152	257323	NC -	203	257324	NC -	304	257325	NC -	405	257329	NC -
2	68	257343	NC -	90	257344	NC -	135	257345	NC -	180	257346	NC -
4	36	257347	NC -	48	257348	NC -	72	257349	NC -	96	257350	NC -
8	19	257326	NC -	25	257330	NC -	37	257334	NC -	50	257338	NC -
10	14	257327	NC -	18	257331	NC -	27	257335	NC -	36	257339	NC -
12	10	257332	NC -	14	257336	NC -	20	257340	NC -	27	257342	NC -
16	7	257328	NC -	10	257333	NC -	15	257337	NC -	20	257341	NC -

ClearSub M System

- Gels in sizes 10 x 7 cm and/or 10 x 10 cm

	ClearSub M7	ClearSub M10	ClearSub MDUO
Maximum number of samples	50	100	50; 100
Gel size / number of trays supplied	10 x 7 cm / 1	10 x 10 cm / 1	10 x 7 cm / 1; 10 x 10 cm / 1
Combs supplied	2 combs with 16 teeth, thickness 1 mm		
Max. number of combs per tray	2	4	2; 4
Buffer volume (ml)	300		
Typical migration condition	90 V, 45-60 minutes		
System dimensions (cm)	22 x 12.5 x 9		
Max. electric power (W)	20		
Part no.	257284	257285	257286
€	NC -	NC -	NC -

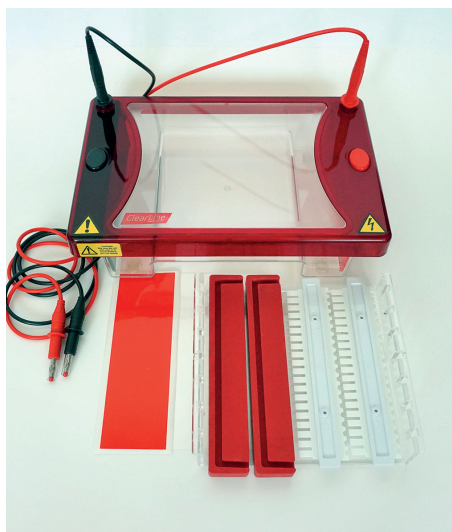


Combs for ClearSub M

Number of teeth	Tooth thickness: 0.75 mm			Tooth thickness: 1 mm			Tooth thickness: 1.5 mm			Tooth thickness: 2 mm		
	Sample volume (µl)	Part no.	€	Sample volume (µl)	Part no.	€	Sample volume (µl)	Part no.	€	Sample volume (µl)	Part no.	€
1	270	257351	NC -	360	257352	NC -	540	257353	NC -	720	257354	NC -
2	118	257364	NC -	158	257365	NC -	236	257371	NC -	315	257372	NC -
4	57	257378	NC -	77	257379	NC -	115	257380	NC -	153	257381	NC -
8	30	257355	NC -	41	257359	NC -	61	257366	NC -	81	257373	NC -
10	20	257356*	NC -	27	257360*	NC -	41	257367*	NC -	54	257374*	NC -
12	17	257357	NC -	23	257361	NC -	34	257368	NC -	45	257375	NC -
16	12	257358	NC -	16	257362	NC -	24	257369	NC -	32	257376	NC -
20	10	257407	NC -	14	257363	NC -	20	257370	NC -	27	257377	NC -

* Compatible with multichannel micropipettes.

ClearSub L System



■ Gels of size 15 x 7 and/or 15 x 10 and/or 15 x 15 cm

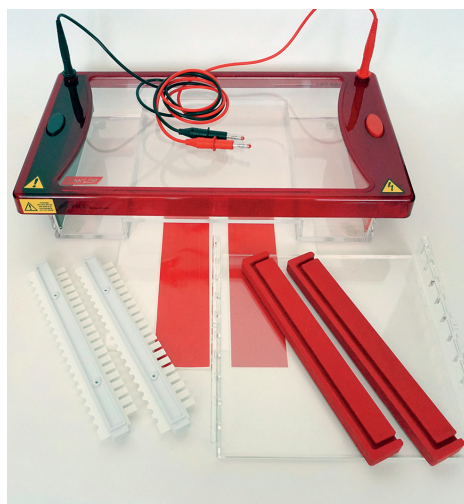
	ClearSub L10	ClearSub L15	ClearSub LTRIO
Maximum number of samples	140	210	70 ; 140 ; 210
Gel size / number of trays supplied	15 x 10 cm / 1	15 x 15 cm / 1	15 x 7 cm / 1 ; 15 x 10 cm / 1 ; 15 x 15 cm / 1
Combs supplied	2 combs with 20 teeth, thickness 1 mm		
Max. number of combs per tray	4	6	2 ; 4 ; 6
Buffer volume (ml)	500		
Typical migration condition	90-150 V, 60 - 90 minutes		
System dimensions (cm)	26.5 x 17.5 x 9		
Max. electric power (W)	40		
Part no.	257287	257288	257289
€	NC -	NC -	NC -

Combs for ClearSub L

Number of teeth	Tooth thickness: 0.75 mm			Tooth thickness: 1 mm			Tooth thickness: 1.5 mm			Tooth thickness: 2 mm		
	Sample volume (µl)	Part no.	€	Sample volume (µl)	Part no.	€	Sample volume (µl)	Part no.	€	Sample volume (µl)	Part no.	€
1	371	257384	NC -	495	257385	NC -	743	257386	NC -	990	257387	NC -
2	169	257391	NC -	225	257393	NC -	338	257394	NC -	450	257395	NC -
4	91	257430	NC -	122	257431	NC -	182	257432	NC -	243	257433	NC -
10	34	257396	NC -	45	257403	NC -	68	257412	NC -	90	257423	NC -
10	22	257397*	NC -	29	257404*	NC -	44	257417*	NC -	59	257424*	NC -
12	30	257398	NC -	41	257405	NC -	61	257418	NC -	81	257425	NC -
14	22	257399*	NC -	29	257406*	NC -	44	257419*	NC -	59	257426*	NC -
16	20	257388*	NC -	27	257389*	NC -	41	257390*	NC -	54	257392*	NC -
20	16	257400	NC -	21	257408	NC -	32	257420	NC -	43	257427	NC -
28	8	257401*	NC -	11	257409*	NC -	17	257421*	NC -	23	257428*	NC -
35	7	257402	NC -	10	257410	NC -	15	257422	NC -	20	257429	NC -

* Compatible with multichannel micropipettes.

ClearSub XL System



■ Gels of size 20 x 10 cm and/or 20 x 20 cm or 20 x 15 cm, or 20 x 25 cm

	ClearSub XL10	ClearSub XL15	ClearSub XL20	ClearSub XL25	ClearSub XLDUO
Maximum number of samples	200	350	450	550	200 ; 450
Gel size / number of trays supplied	20 x 10 cm / 1	20 x 15 cm / 1	20 x 20 cm / 1	20 x 25 cm / 1	20 x 10 / 1 ; 20 x 20 / 1
Combs supplied	2 combs with 20 teeth, thickness 1 mm				
Max. number of combs per tray	4	7	9	11	4 ; 9
Buffer volume (ml)	1200				
Typical migration condition	100-150 V, 60-90 minutes				
System dimensions (cm)	39.5 x 23 x 9				
Max. electric power (W)	50				
Part no.	257290	257291	257292	257293	257294
€	NC -	NC -	NC -	NC -	NC -

Combs for ClearSub XL

Number of teeth	Tooth thickness: 0.75 mm			Tooth thickness: 1 mm			Tooth thickness: 1.5 mm			Tooth thickness: 2 mm		
	Sample volume (µl)	Part no.	€	Sample volume (µl)	Part no.	€	Sample volume (µl)	Part no.	€	Sample volume (µl)	Part no.	€
1	506	257436	NC -	675	257437	NC -	1013	257435	NC -	1350	257438	NC -
2	236	257439	NC -	315	257440	NC -	473	257441	NC -	630	257442	NC -
4	115	257457	NC -	153	257465	NC -	230	257466	NC -	306	257467	NC -
10	54	257443	NC -	72	257450	NC -	108	257458	NC -	144	257468	NC -
16	30	257444	NC -	41	257451	NC -	61	257459	NC -	81	257469	NC -
20	20	257445*	NC -	27	257452*	NC -	41	257460*	NC -	54	257470*	NC -
25	16	257446	NC -	21	257453	NC -	32	257461	NC -	42	257471	NC -
30	13	257447	NC -	17	257454	NC -	26	257462	NC -	34	257472	NC -
36	11	257448	NC -	14	257455	NC -	22	257463	NC -	29	257473	NC -
40	8	257449*	NC -	11	257456*	NC -	17	257464*	NC -	23	257474*	NC -

* Compatible with multichannel micropipettes.

ClearSpin filtration microtubes

ClearLine

- 2 ml dolphin nose microtubes with an insert containing a filtration membrane
- Supplied assembled, caps closed
- Working volume: 500 µl
- Cellulose acetate or nylon membrane
- Max centrifugal speed: 16000 g

Membrane	Cellulose acetate		Nylon	
	No	Yes	Yes	No
Porosity (µm)	0.22		0.45	0.22
Sterile	No	Yes	Yes	No
Units/ bag	25 tubes + inserts	24 tubes + inserts	24 tubes + inserts	100 tubes + inserts
Part no.	007856ACL	007857ACL	007859ACL	007860ACL
€/ bag	NC -	NC -	NC -	NC -



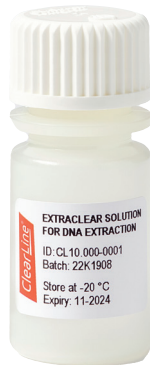
ClearSpin insert only without tube or membrane

Part no.	Designation	Units/ bag	€/ bag
007862CL	ClearSpin insert only without tube or membrane	1000	NC -

DNA extraction kit - ExtraCLEAR

ClearLine

- DNA extraction from various samples (bacteria, tissue, plants, organs, bird feathers, saliva)
- Quick and easy protocol (8 minutes)
- Once the reagent has been mixed with the sample, it is simply incubated at 3 different temperatures (65°C 6 min, 98°C 2 min, 4°C)
- Extraction carried out in a thermocycler or heating block
- Non-toxic reagent
- Extracted DNA ready for PCR amplification



Part no.	Designation	Number of purifications	€
257747	ExtraCLEAR DNA extraction kit	100	NC -
257748	ExtraCLEAR DNA extraction kit	500	NC -

PCR product purification kit - Exo PCR ClearUP

ClearLine

- Cleaning of PCR products in one step
- Quick and easy protocol (5 min)
- Without the use of columns or magnetic balls
- Removes residual primers, single-stranded DNA and inactivates excess dNTPs by dephosphorylation
- Purified products for use in the preparation of NGS libraries

Part no.	Designation	Number of purifications	€
257635	Exo PCR ClearUP	100	NC -
257636	Exo PCR ClearUP	500	NC -
257637	Exo PCR ClearUP	5000	NC -

ExtraClear Direct PCR

ClearLine

- Kit for rapid DNA extraction (8 minutes) followed by PCR amplification and gel deposition
- Extraction of DNA from various samples (mammalian tissues, leaves, feathers, fish fins, saliva,...)
- Compatible with the use of automatic pipetting machines
- Available in a classic version with Disco Taq enzyme, or in a Hot Start version with Hot Disco Taq enzyme

ExtraClear Direct PCR kit



Find ExtraClear solutions for DNA extraction on page 235 and Disco Taq and Disco Taq Fever master mix 2X, ready to use on page 246

- Contains ExtraClear non-toxic extraction solution and Disco Taq master mix 2X ready to load
- Disco Taq master mix 2X ready to load is ready to use (addition of template, primers and water only) and contains a red dye for direct gel deposition

Part no.	Designation	Number of purifications	€
257732	ExtraClear Direct PCR kit	100	NC -
257733	ExtraClear Direct PCR kit	500	NC -

ExtraClear Direct Hot Start PCR kit



- Supplied with ExtraClear non-toxic extraction solution and Hot Disco Taq master mix 2X ready to load
- Hot Disco Taq master mix 2X ready to load is ready to use (addition of template, primers and water only) and contains a red dye for direct gel deposition
- Hot Disco Taq is inactivated at room temperature, activation at 95°C for 15 min

Part no.	Designation	Number of purifications	€
257730	ExtraClear Direct Hot Start PCR Kit	100	NC -
257731	ExtraClear Direct Hot Start PCR Kit	500	NC -

Disco taq DNA polymerase

- High throughput and reliable amplification for routine applications, screening or high-throughput screening
- Amplification up to 5 kb, compatible with TA-cloning and dUTP incorporation
- 5' → 3' exonuclease activity and absence of 3' → 5' exonuclease activity



Samples available, contact us



Tip

Buffers available separately on page 257

Disco taq 5 U/μl, with or without buffer and MgCl₂

- Disco taq polymerase 5 U/μl, with or without 10X buffer and MgCl₂
- Complete with dNTPs, the matrix, primers, water, 10X buffer and MgCl₂ if not supplied
- Several stamps available

	Specificity	Optimisation of MgCl ₂ concentration and required hybridisation temperature
- Standard buffer (Tris-HCl pH 8.5, KCl, 15 mM MgCl ₂ , 1% Tween 20)	+++	Yes
- Ammonium buffer (Tris-HCl pH 8.5, (NH ₄) ₂ SO ₄ , 15 mM MgCl ₂ , 1% Tween 20)	+	No
- Combination buffer (Tris-HCl, pH 8.7, KCl, (NH ₄) ₂ SO ₄ , 15 mM MgCl ₂ , 1% Tween 20)	++	Depending on the matrix and primers

Designation	Number of 50 μl reactions	Without buffer and without MgCl ₂		10X standard buffer and final 25 mM MgCl ₂		10X ammonium buffer and final 25 mM MgCl ₂		10X combined buffer and final mM MgCl ₂	
		Part no.	€	Part no.	€	Part no.	€	Part no.	€
Disco taq 5 U/μl	500	257776	NC -	257604	NC -	257548	NC -	258332	NC -
	1000	257777	NC -	257593	NC -	257545	NC -	257592	NC -
	2500	257778	NC -	257597	NC -	257546	NC -	257596	NC -
	5000	257779	NC -	257600	NC -	257547	NC -	257599	NC -

Disco taq and Disco taq Fever master mix 2X, ready to use



- Master mix ready to use, addition of matrix, primers and water only
- The Disco taq 2X master mix contains Disco taq DNA polymerase, NH₄⁺ buffer, 0.4 mM of each dNTP, MgCl₂ at a final concentration of 1.5 or 2 mM, and stabilising agents
- The Disco taq Fever 2X master mix is supplied with a Fever buffer, for amplifications of up to 4kb with increased specificity, even with difficult templates

Available in a "ready to load" version, containing a loading buffer and a red dye to monitor migration:

- + Can be deposited directly after PCR on an agarose or SDS page gel
- + No interference with PCR, the products obtained can be used for downstream applications (sequencing, etc.) after purification on a column such as PureIT Exo PCR ClearUp

Designation	Number of 50 μl reactions	Number of 20 μl reactions	Final MgCl ₂ concentration: 1.5 mM		Final MgCl ₂ concentration: 2 mM	
			Part no.	€	Part no.	€
Disco taq master mix 2X	100	250	257553	NC -	257563	NC -
	500	1250	257555	NC -	257565	NC -
	2500	6250	257554	NC -	257564	NC -
	5000	12500	257556	NC -	257566	NC -
Disco taq Fever master mix 2X	100	250	257549	NC -	-	-
	500	1250	257551	NC -	-	-
	2500	6250	257550	NC -	-	-
Disco taq master mix 2X, ready to load	5000	12500	257552	NC -	-	-
	100	250	257557	NC -	257567	NC -
	500	1250	257561	NC -	257571	NC -
	2500	6250	257560	NC -	257570	NC -
	5000	12500	257562	NC -	257572	NC -

Disco taq DNA polymerase (continued)

ClearLine

Disco Taq without glycerol

- Disco taq 5 U/μl or 50 U/μl with glycerol-free storage buffer, with or without 10X buffer and 25 mM MgCl₂
- For applications involving a freeze-drying step, or requiring precise pipetting of small volumes (manual or via a pipetting machine)
- 1U allows an average of 500 reactions to be carried out
- Several stamps available

	Specificity	Optimisation of MgCl ₂ concentration and required hybridisation temperature
- Standard buffer (Tris-HCl pH 8.5, KCl, 15 mM MgCl ₂ , 1% Tween 20)	+++	Yes
- Ammonium buffer (Tris-HCl pH 8.5, (NH ₄) ₂ SO ₄ , 15 mM MgCl ₂ , 1% Tween 20)	+	No



MOLECULAR BIOLOGY

Designation	Number of units (U)	Without buffer and without MgCl ₂	€	10X standard buffer and final 25 mM MgCl ₂	€	10X ammonium buffer and final 25 mM MgCl ₂	€
		Part no.		Part no.		Part no.	
Disco taq 5 U/μl, glycerol-free	500	257590	NC -	257587	NC -	257585	NC -
	1000	257588	NC -	257578	NC -	257579	NC -
	2500	257780	NC -	257581	NC -	257781	NC -
	5000	257589	NC -	257584	NC -	257582	NC -
Disco taq 50U/μl, glycerol-free	25000	257575	NC -	-	-	-	-
	250000	257574	NC -	-	-	-	-
	2000000	257573	NC -	-	-	-	-



Hot Disco Taq DNA polymerase

- Inactivated at room temperature, activation at 95°C for 15 min
- Possible incorporation of dUTP
- High specificity and sensitivity for high performance
- For low-level target detection, screening, multiplexing, direct colony PCR, and qPCR applications

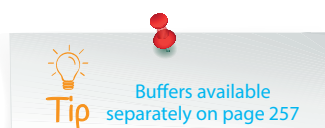
Samples available,
contact us

Hot Disco Taq 5U/μl, with or without buffer and MgCl₂



- Hot Disco Taq polymerase 5 U/μl, with or without 10X buffer and MgCl₂
- Complete with dNTPs, the matrix, primers, water, 10X buffer and MgCl₂ if not supplied
- Several stamps available

	Specificity	Optimisation of MgCl ₂ concentration and required hybridisation temperature
- Standard buffer (Tris-HCl pH 8.5, KCl, 15 mM MgCl ₂ , 1% Tween 20)	+++	Yes
- Ammonium buffer (Tris-HCl pH 8.5, (NH ₄) ₂ SO ₄ , 15 mM MgCl ₂ , 1% Tween 20)	+	No
- Combination buffer (Tris-HCl, pH 8.7, KCl, (NH ₄) ₂ SO ₄ , 15 mM MgCl ₂ , 1% Tween 20)	++	Depending on the matrix and primers



Designation	Number of units / Number of 50 μl reactions	Without buffer and without MgCl ₂ Part no.	€	10X standard buffer and 25 mM MgCl ₂ Part no.	€	10X ammonium buffer and 25 mM MgCl ₂ Part no.	€	10X combined buffer and mM MgCl ₂ Part no.	€
Hot Disco Taq 5U/μl	500	257674	NC -	-	-	257670	NC -	257782	NC -
	1000	257658	NC -	257661	NC -	257659	NC -	257660	NC -
	2500	257662	NC -	257665	NC -	257663	NC -	257664	NC -
	5000	257666	NC -	257669	NC -	257667	NC -	257668	NC -

Hot Disco Taq master mix 2X, ready to use



- Master mix ready to use, addition of matrix, primers and water only
- The 2X master mix contains Hot Disco Taq DNA polymerase, dNTPs, MgCl₂ at a final concentration of 1.5 mM, and buffer 1 (KCl/(NH₄)₂ SO₄ Tris) or buffer 2 ((NH₄)₂ SO₄)

Available in a "Ready to load" version, containing a loading buffer and a red dye to monitor migration:

- + Can be deposited directly after PCR, on agarose or SDS gel
- + No interference with PCR, the products obtained can be used for downstream applications (sequencing, etc.) after purification on a column such as PureIT Exo PCR ClearUp

Designation	Number of 50 μl reactions	Number of 20 μl reactions	Buffer 1 Part no.	€	Buffer 2 Part no.	€
Hot Disco Taq master mix 2X	100	250	257683	NC -	257695	NC -
	500	1250	257685	NC -	257697	NC -
	2500	6250	257684	NC -	257696	NC -
	5000	12500	257686	NC -	257698	NC -
Hot Disco Taq master mix 2X, Ready to load	100	250	257687	NC -	257691	NC -
	500	1250	257689	NC -	257693	NC -
	2500	6250	257688	NC -	257692	NC -
	5000	12500	257690	NC -	257694	NC -

Hot Disco Taq GC master mix 2X, ready to use

- Master mix ready to use, addition of matrix, primers and water only
- For the amplification of GC-rich DNA sequences
- Minimises the risk of artefacts due to possible aspecific polymerisation before the first denaturation step
- The 2X master mix contains Hot Disco Taq DNA polymerase, optimised buffer, dNTPs, 3.0 mM MgCl₂ and stabilising agents

Available with master mix I or II.:

- + Master mix I is suitable in most cases. If, however, the results obtained are not satisfactory, we recommend using master mix 2
- + Contact us for samples to select the master mix that will optimise your results

Designation	Number of 50 μl reactions	Number of 20 μl reactions	Master mix 1 Part no.	€	Master mix 2 Part no.	€
Hot Disco Taq 5U/μl	100	250	257675	NC -	257679	NC -
	500	1250	257677	NC -	257681	NC -
	2500	6250	257676	NC -	257680	NC -
	5000	12500	257678	NC -	257682	NC -

Hot Disco Taq DNA polymerase (continued)

ClearLine®

Hot Disco Taq without glycerol, with or without buffer 10X

- Hot Disco Taq 5U/μl with glycerol-free storage buffer, with or without 10X buffer and 25 mM MgCl₂
- For applications involving a freeze-drying step, or requiring precise pipetting of small volumes (manual or via a pipetting machine) or automated high-throughput screening
- Several stamps available

	Specificity	Optimisation of MgCl ₂ concentration and required hybridisation temperature
- Standard buffer (Tris-HCl pH 8.5, KCl, 15 mM MgCl ₂ , 1% Tween 20)	+++	Yes
- Ammonium buffer (Tris-HCl pH 8.5, (NH ₄) ₂ SO ₄ , 15 mM MgCl ₂ , 1% Tween 20)	+	No
- Combination buffer (Tris-HCl, pH 8.7, KCl, (NH ₄) ₂ SO ₄ , 15 mM MgCl ₂ , 1% Tween 20)	++	Depending on the matrix and primers

Designation	Number of units (U)	Without buffer and without MgCl ₂		10X standard buffer and 25 mM MgCl ₂		10X ammonium buffer and 25 mM MgCl ₂	
		Part no.	€	Part no.	€	Part no.	€
Hot Disco taq 5U/μl, glycerol-free	500	257713	NC -	257725	NC -	257723	NC -
	1000	257709	NC -	257716	NC -	257714	NC -
	2500	257711	NC -	257719	NC -	257717	NC -
	5000	257712	NC -	257722	NC -	257720	NC -



MOLECULAR BIOLOGY



Tip Buffers available separately on page 257

Hot Disco Taq master mix (5X) lyophilised

- Ready to use once reconstituted in the supplied buffer, adding only the matrix, primers and water
- Stable for 12 months at room temperature: store and transport at room temperature
- Amplification up to 4 kb
- The reconstituted Hot Disco Taq master mix (5X) is composed of Hot Disco Taq DNA polymerase, dNTPs, NH₄⁺ buffer and MgCl₂
- Available in a "Ready to load" version, containing two dyes (orange G and xylene cyanol FF) and a loading buffer, for monitoring migration

Designation	Number of 25 μl reactions	Part no.	€
Hot Disco Taq master mix 5X lyophilised	500	257701	NC -
	1000	257699	NC -
	2500	257700	NC -
Hot Disco Taq master mix 5X lyophilised, ready to load	500	257704	NC -
	1000	257702	NC -
	2500	257703	NC -



Hot Disco Taq Multiplex master mix 2X, ready to use

ClearLine®

- Master mix 2X ready to use, addition of matrix, primers and water only
- Taq inactivated at room temperature, activation at 95 °C for 15 min
- Simultaneous amplification of several targets in a single tube
- High specificity and sensitivity for high performance
- Minimises the risk of artefacts due to possible aspecific polymerisation before the first denaturation step
- Possible incorporation of dUTP
- The 2X buffer contains Hot Disco Taq DNA polymerase, dNTPS, optimised buffer and 6 mM MgCl₂

Designation	Number of 50 μl reactions	Number of 20 μl reactions	Part no.	€
Hot Disco Taq Multiplex master mix 2X	100	250	257705	NC -
	500	1250	257707	NC -
	2500	6250	257706	NC -
	5000	12500	257708	NC -



ClearLine deoxyribonucleotides (dNTPs), PCR grade water and enhancer

ClearLine

Part no.	Designation	Concentration	Packaging	€
Deoxyribonucleotides				
257743	Mix of dNTPs, solutions of dATP, dCTP, dGTP and dTTP, 25 mM of each	100 mM	8 tubes of 0.5 ml	NC -
257744	Mix of dNTPs, solutions of dATP, dCTP, dGTP and dTTP, 10 mM of each	40 mM	2 tubes of 0.5 ml	NC -
257746	Set of dNTP, solution of dATP, dCTP, dGTP and dTTP, 100 µM, in separate tubes	100 mM	16 tubes of 0.25 ml	NC -
257745	dNTP set, solution of dATP, dCTP, dGTP and dTTP, 25µM, in separate tubes	100 mM	4 tubes of 0.25 ml	NC -
MgCl ₂				
257741	MgCl ₂ 25 mM	25 mM	10 tubes of 1.5 ml	NC -
257742	MgCl ₂ 25 mM	25 mM	3 tubes of 1.5 ml	NC -
Enhancer PCR				
257543	Betaine solution enhancer for complex matrices	5 M	5 tubes of 1 ml	NC -
PCR grade water				
257605	PCR grade ultrapure water	-	1 bottle of 1000 ml	NC -
257606	PCR grade ultrapure water	-	1 bottle of 500 ml	NC -
257607	PCR grade ultrapure water	-	6 tubes of 5 ml	NC -

Buffers for Disco Taq and Hot Disco Taq DNA polymerase

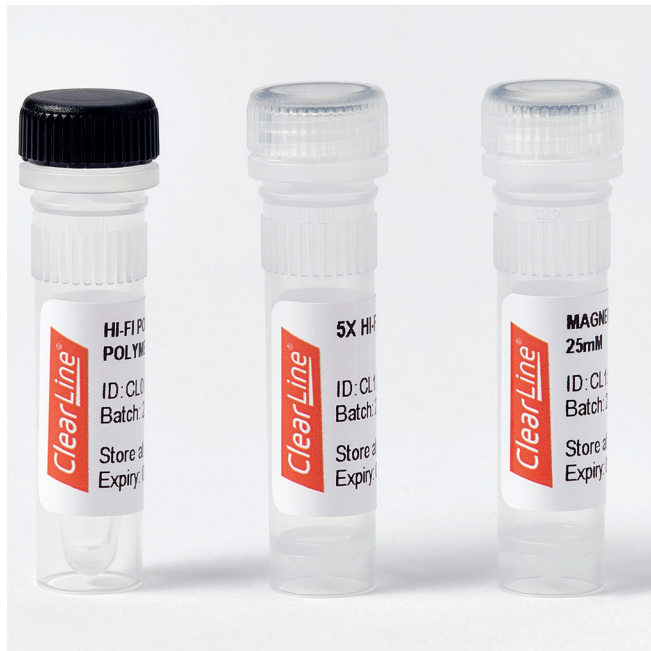
Part no.	Designation	Concentration	Packaging	€
257757	10X standard buffer, 1.7mM MgCl ₂ for Hot Disco Taq and Disco Taq DNA polymerase	10X	3 tubes of 1.5 ml	NC -
257749	10X ammonium buffer, 1.5 mM MgCl ₂ Hot Disco Taq and Disco Taq DNA polymerase	10X	3 tubes of 1.5 ml	NC -
257750	10X combined buffer, 1.5 mM MgCl ₂ Hot Disco Taq and Disco Taq DNA polymerase	10X	3 tubes of 1.5 ml	NC -
257755	GC-rich matrix buffer 1 4X Hot Disco Taq DNA polymerase	4X	10 tubes of 1.5 ml	NC -
257756	GC-rich matrix buffer 2 4X Hot Disco Taq DNA polymerase	4X	10 tubes of 1.5 ml	NC -

Hi-fi Pop DNA polymerase

ClearLine

- For applications that require high fidelity such as cloning, sequencing, SNP analysis and mutagenesis
- 60 times more accurate than conventional Taq polymerase
- Amplification of long, GC-rich DNA sequences
- Complex matrices (very rich in GC, complex secondary structures, very long sequences, etc.) may require the addition of a 5M betaine enhancer (optional)
- High elongation rate: 10 sec/kb
- 3' → 5' exonuclease activity

Hi-fi Pop DNA polymerase 2 U/µl, with 5X buffer and MgCl₂



- Hi-fi Pop DNA polymerase 2 U/µl, with 5X Hi-fi buffer and 25 mM MgCl₂
- Amplification of up to 18kb of gDNA and 25kb of DNA λ
- To be completed with dNTPs, matrix, primers and water

Designation	No. of units / no. of 50 µl reactions	5X Hi-fi buffer and 25 mM MgCl ₂	€
Hi-fi Pop DNA polymerase 2 U/µl	100	257651	NC -
	500	257653	NC -
	2500	257650	NC -
	5000	257652	NC -

Hi-fi Pop DNA polymerase master mix 2X, ready to use



- Master mix ready to use, addition of matrix, primers and water only
- Amplification of up to 11 kb of gDNA
- The 2X buffer contains Hi-fi Taq DNA polymerase, dNTPs, Hi-fi buffer and 3 mM MgCl₂ for a final concentration of 1.5 mM

Designation	Number of 50 µl reactions	Number of 20 µl reactions	Part no.	€
Hi-fi Pop DNA polymerase Master mix 2X	100	250	257654	NC -
	500	1250	257656	NC -
	2500	6250	257655	NC -
	5000	12500	257657	NC -

Scale ladder



Part no.	257739	257738	257740
€	NC -	NC -	NC -
Size of fragments	From 100 to 3000 bp	From 100 to 1000 bp	From 100 to 500 bp
No. of fragments	7	5	3
Double intensity fragments	700 pb	500 pb	-
Concentration	24 µg/ml	19 µg/ml	12 µg/ml
Quantity / Volume	12 µg/500 µl	9.5 µg/500 µl	6 µg/500 µl
Vol. to be used/wells	5 µl (100 lines/tube)		
Ready to use (including dyes for migration monitoring and glycerol)	Yes		
Type of dye	Bromophenol blue		

ClearLine® EmeraldDye colourant



High sensitivity for small fragments, low background noise, dye to be added during gel preparation or following migration, 4 - 6 µl per 100 ml agarose.

- For nucleic acid marking
- Non-carcinogenic alternative to ethidium bromide
- DMSO-free storage solution
- Main excitation wavelength 490 nm / secondary 290 nm
- Emission wavelength 530 nm

Part no.	Designation	€
755110CL	EmeraldDye 1 ml	NC -

Charge pad



- Ready to use
- For DNA and RNA on polyacrylamide or agarose gel



Part no.	Designation	Dye for migration monitoring	Position of dye in relation to samples (1% agarose gel)	Concentration	Packaging	€
257752	Cyan charge buffer	Xylene cyanol FF	800 - 1000 bp	5X	5 tubes of 1 ml	NC -
257754	Red charge buffer	Cresol red	500 - 800 bp	5X	5 tubes of 1 ml	NC -
257751	Blue charge buffer	Bromophenol blue	300 - 500 bp	5X	5 tubes of 1 ml	NC -
257753	Orange charge buffer	Orange G	50 - 150 bp	5X	5 tubes of 1 ml	NC -

ClearLine® powder buffers for nucleic acid electrophoresis



Fast and easy to use.

- 1 sachet makes 1 litre of 1X buffer
- No pH adjustment required

Part no.	Designation	Composition	pH	Units/box	€/box
257081	Tris-Acetate-EDTA (TAE) buffers	40 mM Tris, 20 mM acetic acid, 1 mM EDTA	8.2 - 8.4	100	NC -



ClearLine® powder buffers for nucleic acid electrophoresis



Fast and easy to use.

- 1 sachet makes 1 litre of 1X buffer
- No pH adjustment required
- Fast running buffer for high voltage electrophoresis (300 - 350 V); allows rapid separation of fragments of less than 5 kb (a conventional 30 min cycle can be completed in only 10 min)

Part no.	Designation	Composition	pH	Units/box	€/box
257083	Fast running buffer	-	8.1-8.5	100	NC -

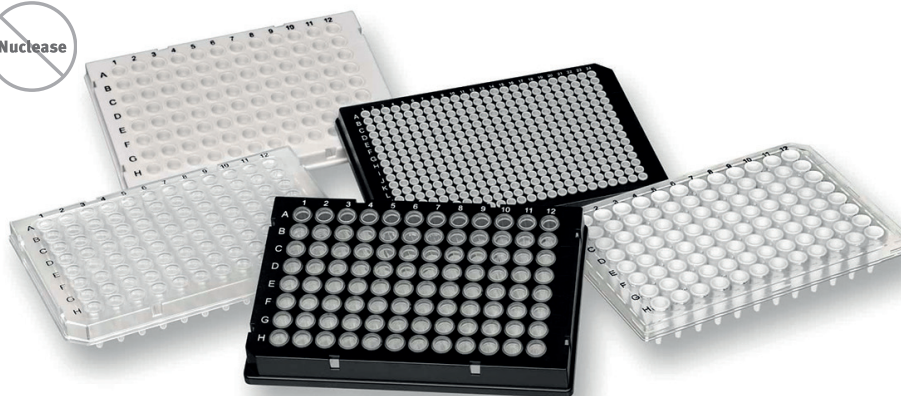
Pre-coloured chemiluminescent marker for Western blotting



- To annotate PVDF or nitrocellulose transfer membranes
- Reacts with HRP substrates
- Fast and sensitive
- Compatible with X-ray film and CCD imagers

Part no.	Designation	€
701100	Pre-stained chemiluminescent marker for Western blot	NC -

ClearLine® SolidFrame bi-component PCR plates



96-well plates

Frame colour	Well colour	Skirt	Style	Compa-tibility	Part no.	€
Standard profile (0.2 ml)						
Natural	Natural	Half-skirted	ABI	5	257301	NC -
Natural	White	Half-skirted	ABI		257302	NC -
Natural	Natural	Half-skirted	Universal	3	257298	NC -
Natural	White	Half-skirted	Universal		257299	NC -
Natural	High sensitivity white	Half-skirted	Universal		257300	NC -
Low profile (0.1 ml)						
White	White	Half-skirted	Roche	6	257311	NC -
White	White, highly sensitive	Half-skirted	Roche		257312	NC -
Natural	Natural	Half-skirted	Roche		257296	NC -
Natural	White	Half-skirted	Roche		257297	NC -
White	Natural	Skirted	Standard	8	257308	NC -
White	White	Skirted	Standard		257309	NC -
White	White, highly sensitive	Skirted	Standard		257310	NC -
Black	Natural	Skirted	Standard		257303	NC -
Black	White	Skirted	Standard		257304	NC -
Black	White, highly sensitive	Skirted	Standard	257305	NC -	

- High quality plates for all PCR and qPCR applications
- Rigid polycarbonate frame
- Plate rigidity prevents deformation by temperature and the risk of evaporation due to loss of sealing with the film
- Ideal for robot handling
- Ultra-thin walled blank medical grade polypropylene wells for optimum temperature transfer
- HS (high sensitivity) white well model for improved detection of low abundance targets

384-well plates

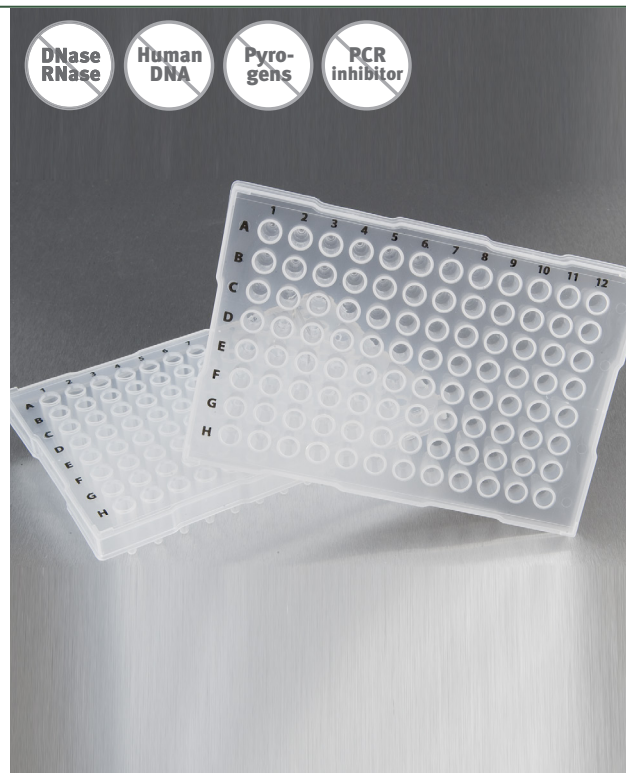
Frame colour	Well colour	Skirt	Compa-tibility	Part no.	€
Black	Natural	Skirted	9	257306	NC -
Black	White	Skirted		257307	NC -
White	White	Skirted		10	257313

ClearLine® PCR plates

ClearLine®

- 96-well plate
- Natural colour
- Alphanumeric index printed in black

Part no.	Compatibility	Skirt	Work volume	Format	Other features	Units/box	€/box
257047	1	Without skirt	200 µl	Universal	Flange around each well for easy sealing	100	NC -
257048	8	Skirted	100 µl	Universal	For low profile block, CFX96 compatible	100	NC -
257049	4	Half-skirted	200 µl	Universal / ABI	With plate flanges for alignment with purification plates	100	NC -
257050	4	Half-skirted	200 µl	Universal / ABI	With edges in the 4 corners of the plate	100	NC -



MOLECULAR BIOLOGY

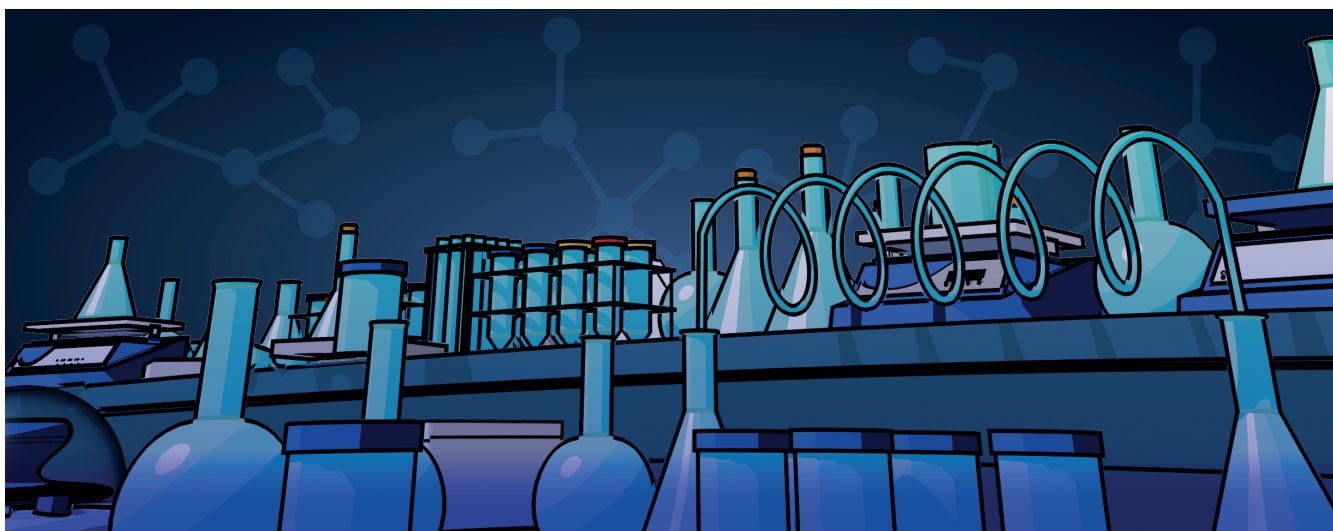
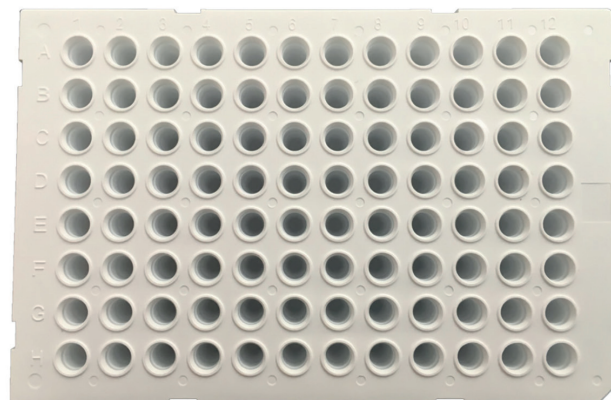
FastGene ClearLine® white semi-skirted low profile 96-well PCR plate

ClearLine®

- Ultra-thin, uniform wall for excellent heat transfer and optimum results
- Produced from ultrapur polypropylene
- Plate compatible with LigthCycler, Biorad CFX96 and Abi stepOne Plus
- Total volume 0.2 ml, maximum working volume 0.1 ml
- Alphanumeric code



Part no.	Designation	Compatibility	€ for 50
257783	FastGene white semi-skirted low profile 96-well PCR plate	See on Dutscher.com	NC -





APPLICATION:

Part no.	Packaging	Model	Highlights	APPLICATION:						
				PCR	qPCR (optically clear)	Short-term storage / incubation / ELISA	Long-term storage	Cell culture and microbiology	HPLC	Fluorescence / luminescence
760212	100 sheets	AlumaSeal® II™	Does not withdraw into itself	•			•			
760213	50 sheets	AlumaSeal® II™	Does not withdraw into itself	•			•			
760231	100 sheets	AlumaSeal® 96™	Reinforced sealing for 96-well plates	•			•			
760232	100 sheets	AlumaSeal® 384™	Reinforced sealing for 384-well plates	•			•			
760206	100 sheets	ThermalSeal®	Easy to remove	•			•			
760207	100 sheets	ThermalSeal®	Easy to remove	•			•			
765267	100 sheets	eXTreme™ Seal	Superior adhesion minimising evaporation	•						
765276	100 sheets	eXTreme™ Seal Large	Superior adhesion minimising evaporation	•						
760229	100 sheets	ThermalSeal® A™	Superior adhesion minimising evaporation	•						
765264	100 sheets	ThermalSeal® 2™	Superior adhesion minimising evaporation	•						
765269	400 sheets	EZcap™ 1 x 8 PCR FilmStrips™	Scored sheet per column of 8 wells	•						
760248	200 sheets	ThermalSeal® 2x8 MiniStrips®	Scored sheet in 2 columns of 8 wells	•						
765282	100 sheets	FoilSeal™	Opaque	•						
765281	50 sheets	FoilSeal™	Opaque	•						
765268	300 sheets	EZcap™ 1 x 8 PCR FoilSeal™	Scored sheet per column of 8 wells	•						
765270	1 roll	FoilSeal™	Excellent chemical resistance	•						
765246	100 sheets	ThermalSeal® RTS™	Silicone adhesive is released only when pressure is applied for a perfect adhesion without interference with the sample	•			•		•	
765265	50 sheets	ThermalSeal® RTS™	Silicone adhesive is released only when pressure is applied for a perfect adhesion without interference with the sample	•			•		•	
760236	100 sheets	ThermalSeal® RT2RR™	High optical quality films with excellent adhesion	•						
760208	100 sheets	ThermalSeal® RT2™	High optical quality films with excellent adhesion	•						
765272	1 roll	SealPlate®	Minimises evaporation, available with colour spotlight				•			
765273	400 sheets	1 x 8 MiniStrips™	Scored sheet per column of 8 wells				•			
765274	400 sheets	1 x 8 MiniStrips™	Scored sheet per column of 8 wells				•			
760202	200 sheets	2 x 8 MiniStrips™	Scored sheet in 2 columns of 8 wells				•			
760203	200 sheets	2 x 8 MiniStrips™	Scored sheet in 2 columns of 8 wells				•			
760227	50 sheets	SealPlate®	Minimises evaporation, available with colour spotlight (assortments)				•			
760226	100 sheets	SealPlate®	Minimises evaporation, available with colour spotlight (blue)				•			
760222	100 sheets	SealPlate®	Minimises evaporation, available with colour spotlight (green)				•			

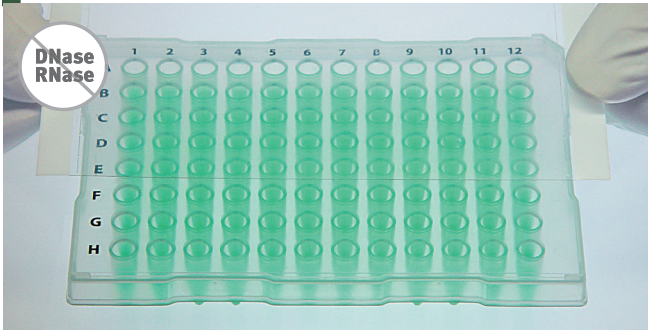
SPECIFICATIONS							ADHESIVE CHARACTERISTICS			COMPATIBILITIES		Dimensions without tab (mm)
Sterile	DNase RNase free	Chemical resistance	Drillable	Peelable	Transparent	Opaque	Film / adhesive material	Operating temperature	Film thickness / adhesive (µm)	Type of plate	Raised rim	
	•	•	•			•	Aluminium / Acrylic	-80 °C to +120 °C	35,6 / 27,9	Skirt and half-skirt	Without raised rim	125.4 x 82.6
•	•	•	•			•	Aluminium / Acrylic	-80 °C to +120 °C	35,6 / 27,9	Skirt and half-skirt	Without raised rim	125.4 x 82.6
	•		•			•	Aluminium / Acrylic	-80 °C to +120 °C	38,1 / 37,6	All types of skirts	With raised rim	117.5 x 77.8
	•		•			•	Aluminium / Acrylic	-80 °C to +120 °C	38,1 / 37,6	Skirt and half-skirt	Without raised rim	123.8 x 82.6
	•	•		•	•		Polypropylene / Acrylic	-40 °C to +120 °C	50,8 / 24,1	Skirt and half-skirt	Without raised rim	123.1 x 79.4
•	•	•		•	•		Polypropylene / Acrylic	-40 °C to +120 °C	50,8 / 24,1	Skirt and half-skirt	Without raised rim	123.1 x 79.4
	•			•	•		Polyester / Acrylic	-20 °C to +120 °C	50,8 / 41,9	All types of skirts	With or without raised rim	118.1 x 78.3
	•			•	•		Polyester / Acrylic	-20 °C to +120 °C	50,8 / 41,9	Skirt and half-skirt	Without raised rim	121.9 x 81.5
	•				•		Polyester / Acrylic	-40 °C to +120 °C	50,8 / 41,9	All types of skirts	With raised rim	118.1 x 78.3
	•				•		Polyester / Acrylic	-40 °C to +120 °C	50,8 / 41,9	Skirt and half-skirt	Without raised rim	125.1 x 79.4
	•				•		Polypropylene / Acrylic	-20 °C to +120 °C	50,8 / 41,9	Skirt and half-skirt	Without raised rim	73.3 x 10.1
	•			•	•		Polypropylene / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	With raised rim	76.2 x 19.1
	•		•	•		•	Aluminium / Acrylic	-20 °C to +120 °C	50,8 / 36,8	All types of skirts	With or without raised rim	118.1 x 78.3
•	•		•	•		•	Aluminium / Acrylic	-20 °C to +120 °C	50,8 / 36,8	All types of skirts	With or without raised rim	118.1 x 78.3
	•		•	•		•	Aluminium / Acrylic	-20 °C to +120 °C	50,8 / 36,8	Skirt and half-skirt	Without raised rim	81.2 x 10.1
	•		•	•		•	Aluminium / Acrylic	-20 °C to +120 °C	50,8 / 36,8	All types of skirts	With or without raised rim	117.1 x 78.3
	•	•					Polyolefin / Silicone	-80°C to +105°C	50,8 / 50,8	All types of skirts	With or without raised rim	116.2 x 78.3
•	•	•					Polyolefin / Silicone	-80°C to +105°C	50,8 / 50,8	All types of skirts	With or without raised rim	116.2 x 78.3
	•						Polyester / Acrylic	-40 °C to +120 °C	50,8 / 29,2	All types of skirts	With or without raised rim	118.1 x 77.8
	•						Polyester / Acrylic	-40 °C to +120 °C	50,8 / 29,2	Skirt and half-skirt	Without raised rim	121.9 x 79.4
				•	•		Polyester / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	Without raised rim	121.9 x 79.4
	•				•		Polyester / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	Without raised rim	82.6 x 9.5
•	•				•		Polyester / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	Without raised rim	82.6 x 9.5
					•		Polypropylene / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	Without raised rim	82.6 x 19.1
•					•		Polypropylene / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	Without raised rim	82.6 x 19.1
				•	•		Polyester / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	Without raised rim	125 x 79.4
				•	•		Polyester / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	Without raised rim	125 x 79.4
				•	•		Polyester / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	Without raised rim	125 x 79.4



				APPLICATION:						
Part no.	Packaging	Model	Highlights	PCR	qPCR (optically clear)	Short-term storage / incubation / ELISA	Long-term storage	Cell culture and microbiology	HPLC	Fluorescence / luminescence
760223	100 sheets	SealPlate®	Minimises evaporation, available with colour spot (lavender)			•				
760224	100 sheets	SealPlate®	Minimises evaporation, available with colour spotlight (orange)			•				
760225	100 sheets	SealPlate®	Minimises evaporation, available with colour spotlight (red)			•				
765283	100 sheets	Universal	Good sealing			•				
765277	100 sheets	Universal	Good sealing			•				
765278	100 sheets	ValueSeal®	Economy version			•				
765252	1 roll	SealPlate®	Minimises evaporation, available with colour spotlight			•				
765254	2 rolls	SealPlate®	Minimises evaporation, available with colour spotlight			•				
765253	1 roll	SealPlate®	Minimises evaporation, available with colour spotlight			•				
765255	2 rolls	SealPlate®	Minimises evaporation, available with colour spotlight			•				
760200	100 sheets	SealPlate®	Minimises evaporation, available with colour spotlight			•				
760201	100 sheets	SealPlate®	Minimises evaporation, available with colour spotlight			•				
760205	100 sheets	ThinSeal™	Thin film easily drillable with a pipette tip			•				
760204	100 sheets	ThinSeal™	Thin film easily drillable with a pipette tip			•				
765266	100 sheets	eXTReme™ FoilSeal™	Excellent chemical resistance				•			
765256	1 roll	AeraSeal™	Gas permeable					•		
765258	2 rolls	AeraSeal™	Gas permeable					•		
765257	1 roll	AeraSeal™	Gas permeable					•		
765259	2 rolls	AeraSeal™	Gas permeable					•		
760234	100 sheets	X-Pierce™	After sampling and removal of the tip, the "X" closes and the sample is still protected from contamination						•	
760235	50 sheets	X-Pierce™	After sampling and removal of the tip, the "X" closes and the sample is still protected from contamination						•	
760216	100 sheets	EZ-Pierce™	Ideal for robotic systems						•	
760247	50 sheets	EZ-Pierce™	Ideal for robotic systems						•	
760220	50 sheets	Zone-Free™	No adhesive in front of the wells, ideal for use with tips and in robotics						•	
760241	50 sheets	AbsorbMax™	Absorbs light, reduces stray light							•
760245	50 sheets	BrightMax™	Reflects light and increases sensitivity							•
760214	100 sheets	AeraSeal™	Gas permeable							
760215	50 sheets	AeraSeal™	Gas permeable							

SPECIFICATIONS								ADHESIVE CHARACTERISTICS			COMPATIBILITIES		Dimensions without tab (mm)
Sterile	DNase RNase free	Chemical resistance	Drillable	Peelable	Transparent	Opaque	Gas permeable	Film / adhesive material	Operating temperature	Film thickness / adhesive (µm)	Type of plate	Raised rim	
				•	•			Polyester / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	Without raised rim	125 x 79.4
				•	•			Polyester / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	Without raised rim	125 x 79.4
				•	•			Polyester / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	Without raised rim	125 x 79.4
•					•			Polypropylene / Acrylic	-40 °C to +120 °C	50,8 / 25,4	Skirt and half-skirt	Without raised rim	125 x 79.4
•	•				•			Polypropylene / Acrylic	-40 °C to +120 °C	50,8 / 25,4	Skirt and half-skirt	Without raised rim	125 x 79.4
				•	•			Polyester / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	Without raised rim	123.4 x 79.4
				•	•			Polyester / Acrylic	-40 °C to +120 °C	38,1 / 26,7	Skirt and half-skirt	Without raised rim	120.7 x 79.4
				•	•			Polyester / Acrylic	-40 °C to +120 °C	38,1 / 26,7	Skirt and half-skirt	Without raised rim	120.7 x 79.4
•				•	•			Polyester / Acrylic	-40 °C to +120 °C	38,1 / 26,7	Skirt and half-skirt	Without raised rim	120.7 x 79.4
•				•	•			Polyester / Acrylic	-40 °C to +120 °C	38,1 / 26,7	Skirt and half-skirt	Without raised rim	120.7 x 79.4
				•	•			Polyester / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	Without raised rim	125.1 x 79.4
•				•	•			Polyester / Acrylic	-40 °C to +120 °C	50,8 / 26,7	Skirt and half-skirt	Without raised rim	125.1 x 79.4
•			•	•				Polyester / Acrylic	-40 °C to +120 °C	25,4 / 24,1	Skirt and half-skirt	Without raised rim	121.2 x 79.4
			•	•				Polyester / Acrylic	-40 °C to +120 °C	25,4 / 24,1	Skirt and half-skirt	Without raised rim	121.2 x 79.4
•	•	•	•	•		•		Aluminium / Acrylic	-80 °C to +120 °C	48,3 / 30,5	All types of skirts	With or without raised rim	118.1 x 78.3
			•				•	Rayon / Acrylic	-20 °C to +80 °C	139.7 / -	Skirt and half-skirt	Without raised rim	120.7 x 82.6
			•				•	Rayon / Acrylic	-20 °C to +80 °C	139.7 / -	Skirt and half-skirt	Without raised rim	120.7 x 82.6
•			•				•	Rayon / Acrylic	-20 °C to +80 °C	139.7 / -	Skirt and half-skirt	Without raised rim	120.7 x 82.6
•			•				•	Rayon / Acrylic	-20 °C to +80 °C	139.7 / -	Skirt and half-skirt	Without raised rim	120.7 x 82.6
			•	•				Vinyl / Acrylic	-40 °C to +90 °C	88,9 / 17,8	Skirt and half-skirt	Without raised rim	124.5 x 79.4
•			•	•				Vinyl / Acrylic	-40 °C to +90 °C	88,9 / 17,8	Skirt and half-skirt	Without raised rim	124.5 x 79.4
		•	•	•				Polyethylene / Acrylic	-40 °C to +90 °C	70 / 25	Skirt and half-skirt	Without raised rim	142.9 x 82.6
•	•	•	•	•				Polyethylene / Acrylic	-40 °C to +90 °C	70 / 25	Skirt and half-skirt	Without raised rim	142.9 x 82.6
			•	•				Polyethylene / Acrylic	-40 °C to +90 °C	69,9 / 26,7	Skirt and half-skirt	Without raised rim	121.9 x 79.4
					•			Vinyl / Acrylic	-40 °C to +80 °C	203,2 / 36,8	Skirt and half-skirt	Without raised rim	114.3 x 76.2
					•			Vinyl / Acrylic	-40 °C to +80 °C	203,2 / 36,8	Skirt and half-skirt	Without raised rim	116.1 x 76.2
			•				•	Rayon / Acrylic	-20 °C to +80 °C	139.7 / -	Skirt and half-skirt	Without raised rim	127 x 82.6
•		•					•	Rayon / Acrylic	-20 °C to +80 °C	139.7 / -	Skirt and half-skirt	Without raised rim	127 x 82.6

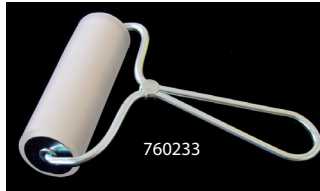
ThermalSeal® RTS™ ClearLine® films



- Applications: qPCR, long-term storage, crystallography and HPLC
- Made of 50.8 µm polyofil
- Operating temperature: -80 °C to +105 °C
- For all types of plates
- Dimensions without tab: 116.2 x 78.3 mm
- With two detachable tabs (except roll film)
- Optically clear, low autofluorescence
- Good chemical resistance
- Silicone adhesive is released only when pressure is applied for a perfect adhesion without interference with the sample

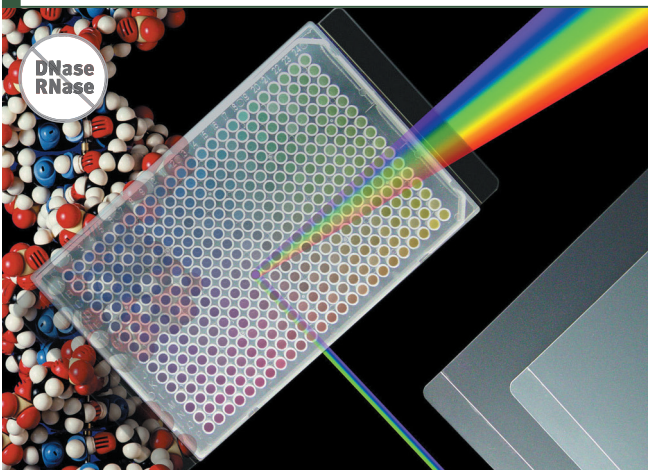
Accessory

Cat. No.	Designation	€
760233	Applicator	NC -



Part no.	Designation	Units/box	€/box
765246	ThermalSeal® RTS™ ClearLine® film	100	NC -
765279	ThermalSeal® RTS™ ClearLine® film	25	NC -
765265	ThermalSeal® RTS™ ClearLine® sterile film	100	NC -
765249	ThermalSeal® RTS™ ClearLine® film in 65 m rolls	1	NC -

ThermalSeal® RT2™ and RT2RR™ ClearLine® Films



- Application: qPCR
- Made of 50.8 µm polyester
- Operating temperature: -40 °C to +120 °C
- With two detachable tabs
- Optically clear, low autofluorescence
- High optical quality films with excellent adhesion

Part no.	Designation	Dimensions (mm)	Units/box	€/box
760236	ThermalSeal® RT2RR™ film ClearLine® for unskirted plates	118.1 x 77.8	100	NC -
760208	ClearLine® ThermalSeal® RT2™ film for skirted or half-skirted plates	121.9 x 79.4	100	NC -



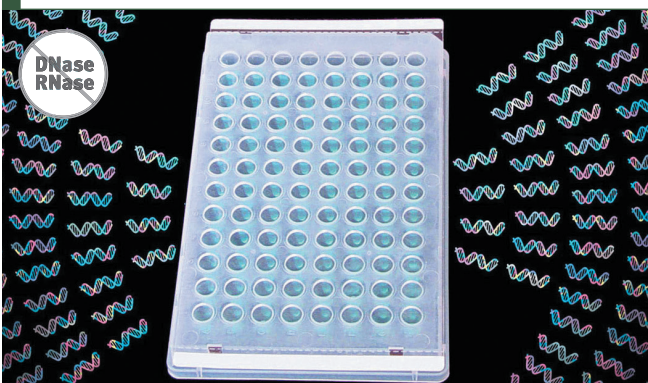
ThermalSeal® A™ and ThermalSeal® 2™ ClearLine® Films



- Applications: PCR
- Made of 50.8 µm polyester
- Operating temperature: -40 °C to 120 °C
- With two detachable tabs
- Transparent
- Strong adhesive to minimise evaporation

Part no.	Designation	Dim. (mm)	Units/box	€/box
760229	ThermalSeal® A™ ClearLine® film for unskirted plate	118.1 x 78.3	100	NC -
765264	ClearLine® ThermalSeal® 2™ film for skirted or half-skirted plates	125.1 x 79.4	100	NC -

ThermalSeal® ClearLine® films



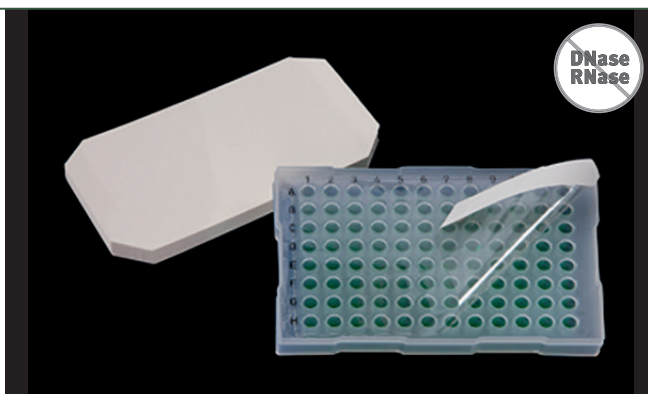
- Applications: PCR
- Made of 50.8 µm polypropylene
- Operating temperature: -40 °C to 120 °C
- For rigid polypropylene plates
- Dimensions without tab: 123.1 x 79.4 mm
- With two detachable tabs
- Transparent
- Easy to remove

Part no.	Designation	Units/box	€/box
760206	ThermalSeal® ClearLine® film	100	NC -
760207	ThermalSeal® ClearLine® sterile film	100	NC -

EXTreme™ Seal ClearLine® films

- Applications: PCR
- Made of 50.8 µm polyester
- Operating temperature: -20 °C to 120 °C
- With two detachable tabs
- Transparent
- Strong adhesive to minimise evaporation
- Do not leave residues

Part no.	Designation	Dim. (mm)	Units/box	€/box
765267	eXTreme™ Seal ClearLine® film for unskirted plate	118.1 x 78.3	100	NC -
765276	eXTreme™ Seal Large ClearLine® film for half-skirted and skirted plate	121.9 x 81.5	100	NC -



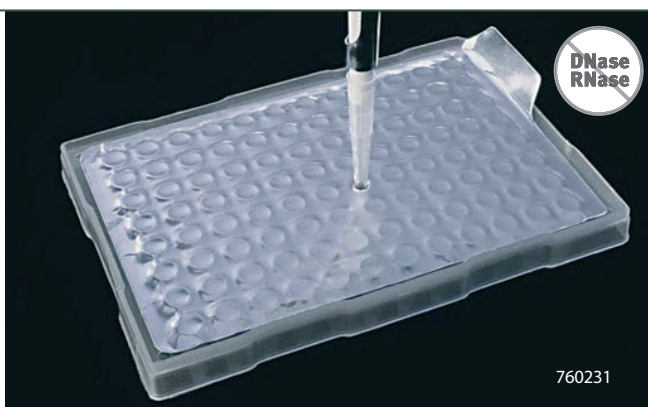
MOLECULAR BIOLOGY

ClearLine® AlumaSeal 96® and AlumaSeal 384® films

Applications: PCR, long-term storage

- 38.1 µm aluminium
- Operating temperature: - 80 °C to +120 °C
- With a tab
- Drillable
- Opaque
- Reinforced sealing for 96-well plates

Part no.	Designation	Dimensions (mm)	Units/box	€/box
760231	ClearLine® AlumaSeal 96® film for 96-well plate, non-skirted	117.5 x 77.8	100	NC -
760232	ClearLine® AlumaSeal 384® film for 384-well plate or Deepwell	123.8 x 82.6	100	NC -



760231



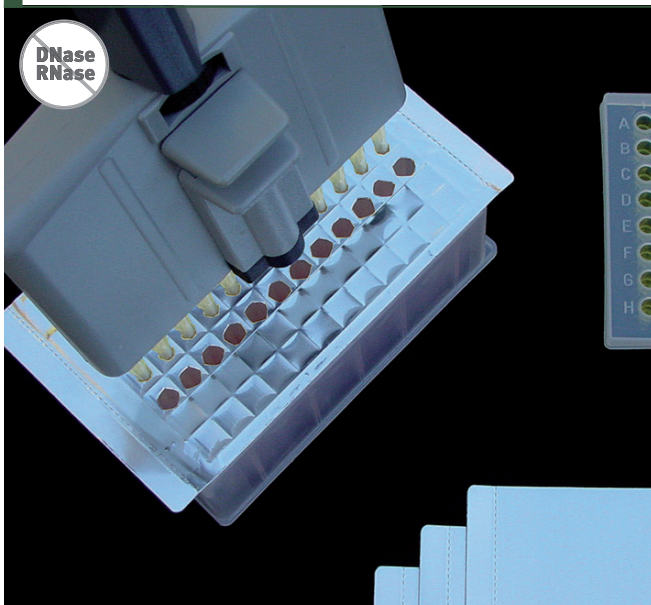
760232

Prices are indicative and excluding tax. Visit Dutscher.com



AlumaSeal II® ClearLine® film

ClearLine



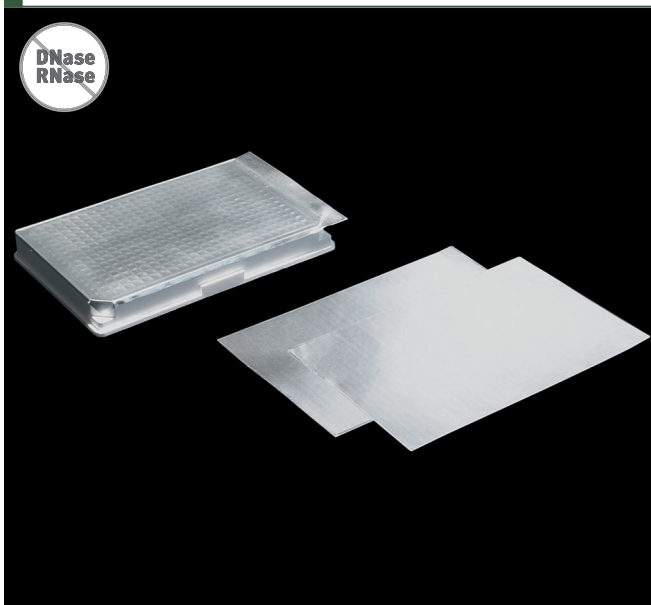
Applications: PCR, long-term storage

- 35.6 µm aluminium
- Operating temperature: -80°C to +120 °C
- Universal
- Dimensions without tab: 125.4 x 82.6 mm
- With two detachable tabs
- Good chemical resistance
- Drillable
- Opaque
- Does not withdraw into itself

Part no.	Designation	Units/box	€/ box
760212	AlumaSeal II® ClearLine® Film	100	NC -
760213	AlumaSeal II® ClearLine® sterile film	50	NC -
765248	AlumaSeal II® ClearLine® film in rolls of 100 m	1	NC -

Alumaseal CS™ ClearLine® freezer adhesive film

ClearLine

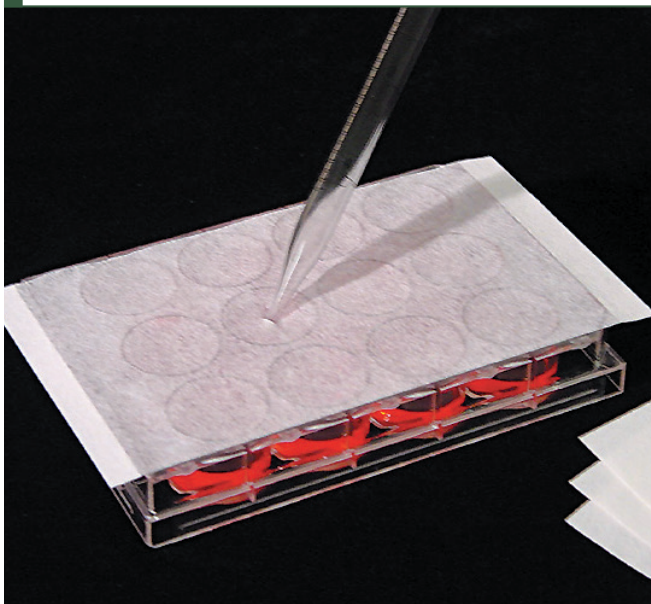


- Application: cold storage of microplates.
- Dimensions: 82.6 x 132.6 mm
- Length without tabs: 123.04 mm
- Withstands down to -80°C

Part no.	Designation	Units/bag	Units/box	€/ box
760243	AlumaSeal™ CSfilm	100	100	NC -
760244	AlumaSeal™ CS Sterilefilm	25	50	NC -

AeraSeal™ ClearLine® porous films

ClearLine



- Porous hydrophobic adhesive film with a total thickness of 140 µm
- Promote uniform gas exchange in all wells
- Non-cytotoxic
- Highly gas permeable
- Easily pierced with a pipette tip for sample recovery
- Can be used from -20 °C to +80 °C

Part no.	Designation	Units/box	€/ box
760214	AeraSeal™ adhesive film	100	NC -
760215	AeraSeal™ sterile adhesive film	50	NC -
765247	AeraSeal™ non-sterile film roll, 81 mm x 100 m	1	NC -
765259	AeraSeal™ sterile film roll, 50 sheet roll	2	NC -

ClearLine® heat-sealable films



- Available in 2 formats:
 - sheet format for manual or semi-automatic heat sealers
 - roll format for automatic heat sealers, Agilent VII Plateloc, REM (LHS / SHS), ALPS 5000 and IntelliXseal

Photo	Model	Description	Applications	Operating temperatures	Compatible plates	Part no.	Conditioning	Dimensions	€
	qPCRClear NPeel	Optical quality and peelable film	qPCR, short-term storage	-80 °C to 80 °C	Polypropylene (PP), polyethylene (PE), polystyrene (PS), cyclic olefin copolymer (COC)	257114	1 roll	610 m x 78 mm	NC -
						257116	100 sheets	125 x 78 mm	NC -
						257115	1 roll	500 m x 115 mm	NC -
	PeelNClear ChemPlus	Optical quality film with reinforced seal for use in water baths or water thermocyclers	PCR, long-term storage	-80 °C to 110 °C	Polypropylene (PP)	257120	1 roll	610 m x 78 mm	NC -
						257122	100 sheets	125 x 78 mm	NC -
						257121	1 roll	500 m x 115 mm	NC -
	PeelNFoil ChemPlus	Peelable aluminium film, good seal and high resistance to solvents including DMSO	PCR, short-term storage	-80 °C to 110 °C	Polypropylene (PP), polyethylene (PE), polystyrene (PS), cyclic olefin copolymer (COC)	257126	1 roll	610 m x 78 mm	NC -
						257128	100 sheets	125 x 78 mm	NC -
						257127	1 roll	500 m x 115 mm	NC -
	PeelNFoil	Peelable aluminium film with good sealing properties	PCR, short-term storage	-80 °C to 110 °C	Polypropylene (PP), polyethylene (PE), some cyclic olefin copolymers (COC)	257123	1 roll	610 m x 78 mm	NC -
						257125	100 sheets	125 x 78 mm	NC -
						257124	1 roll	500 m x 115 mm	NC -
	PeelNFoil Strong	Peelable aluminium film with reinforced seal. High resistance to solvents including DMSO. Can be used in water bath or water thermocycler	PCR, long term storage, low temperature transport	-200 °C to 110 °C	Polypropylene (PP)	257132	1 roll	610 m x 78 mm	NC -
						257134	100 sheets	125 x 78 mm	NC -
						257133	1 roll	500 m x 115 mm	NC -
	PierceNFoil	Peelable and pierceable aluminium film resistant to solvents including DMSO with excellent sealing properties	PCR, short-term storage, sample transport	-20 °C to 110 °C	Polypropylene (PP), polystyrene (PS)	257129	1 roll	610 m x 78 mm	NC -
						257131	100 sheets	125 x 78 mm	NC -
						257130	1 roll	500 m x 115 mm	NC -
	PierceNClear	Optical quality and easily perforated film for robotics applications	Robotic and compatible with the ABI 3730 sequencer	-80 °C to 80 °C, up to 110 °C with pressurised heating lids	Polypropylene (PP), polyethylene (PE), polystyrene (PS), cyclic olefin copolymer (COC), polycarbonate (PC)	257117	1 roll	610 m x 78 mm	NC -
						257119	100 sheets	125 x 78 mm	NC -
						257118	1 roll	500 m x 115 mm	NC -

MOLECULAR BIOLOGY

ClearLine® PCR tube strips



- Easy to cut into individual tubes
- Extra-thin wall
- Total volume: 0.3 ml (standard profile)
- Cap strips compatible with ClearLine® PCR plates



Part no.	Designation	Units/box	€/box
257052	Strip of 8 PCR tubes	250 x 8	NC -
257051	Barrette of 8 optical flat caps	250 x 8	NC -
257046	Strip of 8 PCR tubes with domed cap	250 x 8	NC -
257054	Strip of 8 PCR tubes with flat cap	250 x 8	NC -
257053	Strip of 8 PCR tubes with flat cap	10 x 250 x 8	NC -



ClearLine® reagent reservoirs

ClearLine®



- White or translucent medical grade polystyrene
- Spouts on all 4 corners
- V-shaped bottom
- Graduations on both inner walls (accuracy +/-5%)
- Sterile tanks packed in packs of 1 or 5



Standard tanks in white polystyrene

L x D x H int.(mm)	L x D x H ext.(mm)	Vol. (ml)	Non-sterile pack/100	€/box of 100	Sterile pack/1	€/box of 1	Sterile pack/5	€/box of 5
117 x 32 x 23	145 x 62 x 24	25	097805	NC -	097801	NC -	097800	NC -
117 x 49 x 23	145 x 82 x 27	50	097819	NC -	097802	NC -	097803	NC -
115 x 50 x 30	145 x 86 x 30	100	097804	NC -	087806	NC -	087807	NC -

3-compartment sterile white polystyrene tanks

Compartment Internal size (L x D x H) = 35 x 18 x 15 mm.

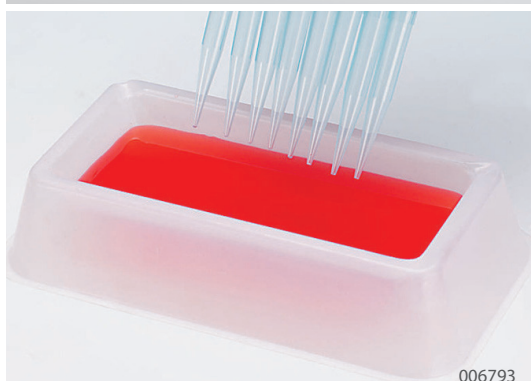
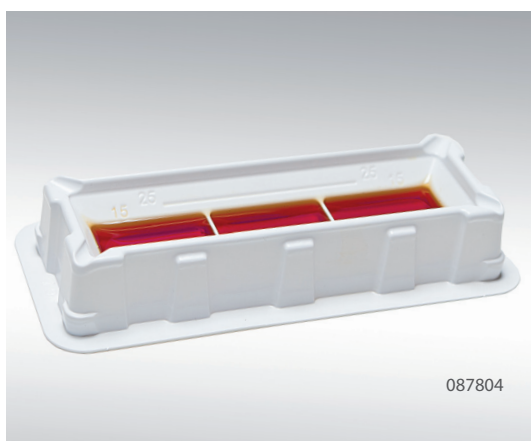
L x D x H int.(mm)	L x D x H ext.(mm)	Vol. (ml)	Sterile pack/1	€/box of 1	Sterile pack/5	€/box of 5
117 x 32 x 23	145 x 62 x 24	25	087804	NC -	087805	NC -

Standard translucent polystyrene tanks

L x D x H int.(mm)	L x D x H ext.(mm)	Vol. (ml)	Non-sterile pack/100	€/box of 100	Sterile pack/1	€/box of 1	Sterile pack/5	€/box of 5
126 x 39 x 27	149 x 69 x 27	55	-	-	006793*	NC -	006794*	NC -
118 x 50 x 33	150 x 86 x 34	100	006795**	NC -	006796**	NC -	006797**	NC -

* V-shaped bottom along the inside edge.

** V-bottom starting at 18 mm (from the top of the inner edge of the tank).



Tip

ClearLine® certificates
downloadable from Dutscher.com
Enter the part numbers on Dutscher.com

ClearLine® reagent containers



- White polystyrene tanks
- Spouts on all 4 corners
- V-shaped bottom
- Graduated
- Products in a clean, pre-sterile or sterile environment



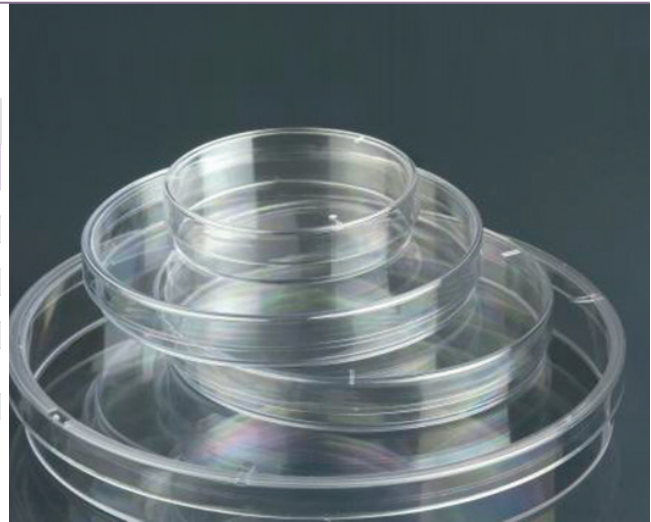
L x D x H int.(mm)	L x D x H ext.(mm)	Vol. (ml)	Non-sterile pack/100	€/box of 100	Sterile pack/1	€/box of 1	Sterile pack/5	€/box of 5
117 x 32 x 23	145 x 62 x 24	25	713152	NC -	713155	NC -	713158	NC -
117 x 49 x 23	145 x 82 x 27	50	713153	NC -	713156	NC -	713159	NC -
115 x 50 x 30	145 x 86 x 30	100	713154	NC -	713157	NC -	713160	NC -

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)	Spurs	Units/bag	Units/box	Aseptic		E-Beam Irradiated	
				Part no.	€/box	Part no.	€/box
55 x 14 (Ø x H)	Without	15	1200	076059	NC -	076059S	NC -
55 x 14 (Ø x H)	3	15	1200	076058	NC -	076058S	NC -
90 x 13 (Ø x H)	Without	20	500	020006B	10 -	020006BS	NC -
90 x 14.2 (Ø x H)	3	33	825	257045	10 -	-	-
90 x 13 (Ø x H)	3	20	500	076084B	10 -	076084BS	NC -
90 x 13 (Ø x H)	3	20	500	-	-	-	-
120 x 120 x 15 (W x L x H)	4	10	240	076063	NC -	076063S	NC -
140 x 13 (Ø x H)	4	15	165	076060B	10 -	076060SD	NC -

* General dimensions, see the data sheets on Dutscher.com for more details.
** Double packaging.



ClearLine® antibiotic discs

- Based on cotton linter
- Highly absorbent paper
- 270 g/m²
- Thickness 0.7 mm
- Per 1000



Part no.	Ø (mm)	€
258347	6	NC -
258348	9	NC -
258349	127	NC -
258350	250	NC -



MICROBIOLOGY ANALYSIS

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
Inoculator 10 µl, blue colour	390529	390530	390528A	390528	390527A	390527
€/box	NC -	NC -	NC -	NC -	NC -	NC -



Cotton tip swabs

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

Part no.	Rod	Rod size L x ø (mm)	Tip size L x ø (mm)	Unit of emb.	Units/box	€/box
390696A	Wood	150 x 2	Width 5 mm	20	100	NC -
390580	Wood	150 x 2	Width 5 mm	1	5000	NC -
390696	Wood	150 x 2	Width 5 mm	1	10000	NC -

Hydrophobic markers for immunostaining

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

Part no.	Designation	Tip thickness (mm)	€
490000	PAP Pen Marker Immunostaining thin	2	NC -
490001	PAP Immunostaining Pen Marker, thick	5	NC -



Prices are indicative and excluding tax. Visit Dutscher.com

ClearLine® single-use spectrophotometry cuvettes

ClearLine®



Single-use cuvettes, in two types of materials:
 + polystyrene (PS): wavelength 340 to 900 nm;
 + PMMA (Polymethyl methacrylate): wavelength 300 to 900 nm.

- Optical path: 10 mm
- Packaged in a polystyrene box

Part no.	Vol. (ml)	Number of windows	Type	Material	Spectral range (nm)	€ for 100
030101	1.6	2	Semi micro	PS	340/900	NC -
030108	1.6	2	Semi micro	PMMA	300/900	NC -
030100	4	2	Macro	PS	340/900	NC -
030111	4	2	Macro	PMMA	300/900	NC -

Large format microscope slides



Standard 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	Cat. No.	Standard quality		Silver quality	
				€ per box of 2500	Part no.	€ per box of 2500	Part no.
Cut	No	-	390998	NC -	390997	NC -	NC -
Cut	Yes	-	395000	NC -	390999	NC -	NC -
Ground 45°	No	-	395002	NC -	395001	NC -	NC -
Ground 45°	Yes	-	-	-	395003	NC -	NC -
Ground 45°	Yes	Orange	-	-	395004	NC -	NC -
Ground 45°	Yes	Light blue	-	-	395005	NC -	NC -
Ground 45°	Yes	White	-	-	395006	NC -	NC -
Ground 45°	Yes	Yellow	-	-	395007	NC -	NC -
Ground 45°	Yes	Pink	-	-	395008	NC -	NC -
Ground 45°	Yes	Green	-	-	395009	NC -	NC -

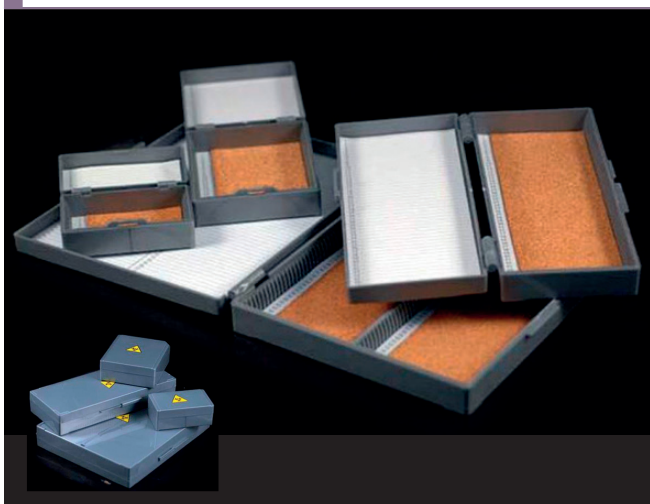
Coverslips



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

Part no.	Dimensions (mm)	Units/box	€/box
390989	18 x 18	2000	NC -
390990	20 x 20	2000	NC -
390991	22 x 22	2000	NC -
390992	24 x 24	2000	NC -
390993	24 x 32	1000	NC -
390994	24 x 40	1000	NC -
390995	24 x 50	1000	NC -
390996	24 x 60	1000	NC -

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

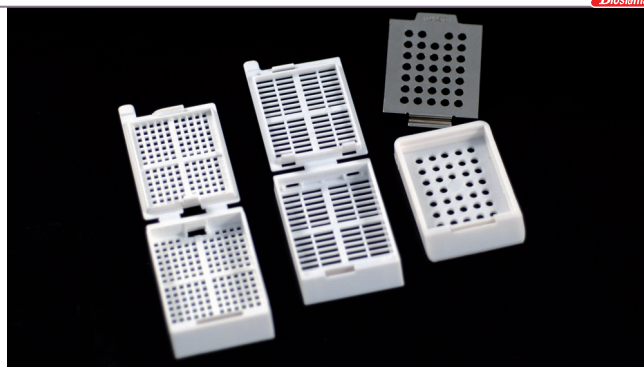
Part no.	Capacity	Outside dimensions W x D x H (mm):	€
390855	12 slides	50 x 80 x 30	NC -
390856B	25 slides	95 x 80 x 30	NC -
390857	50 slides	80 x 200 x 30	NC -
390858	100 slides	160 x 200 x 30	NC -



Biosigma inclusion cassettes

- With or without lid
- Made of P.O.M. (polyoxymethylene)
- With detachable lid
- Blue histology sponge, dim. 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
€ for 2000	NC -	NC -



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	4.2
Length (mm)	145	155
Graduation (ml)	0.25	0.5
In bulk	390509	390512
Units/ bag	500	500
€/ bag	NC -	NC -
Steriles/5	390510	390513
Units/box	1000	1000
€/ box	NC -	NC -
Sterile/1	390511	390514
Units/box	1000	1000
€/ box	NC -	NC -



Other transfer pipettes - Non-sterile.

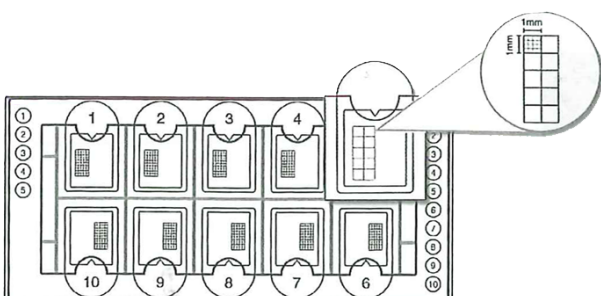
Part no.	Designation	Units/ box	€/ box
390515	Transfer pipette 1.5 ml long tip	2400	NC -
390521	Transfer pipette 10 ml	1500	NC -
390517	Transfer pipette triple bulb for M.T. kit	3000	NC -

Fast-Read 102® plastic counting cells

10-grid PMMA 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

Part no.	Designation	€
390497	Fast-read® slides, 10 chambers x 100	NC -
390501	Transport tray for 10 slides	NC -
390498	Kit of 100 Fast-Read® slides 10 chambers + 1000 transfer pipettes	NC -





M-T® for Fast-Read 102® system

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

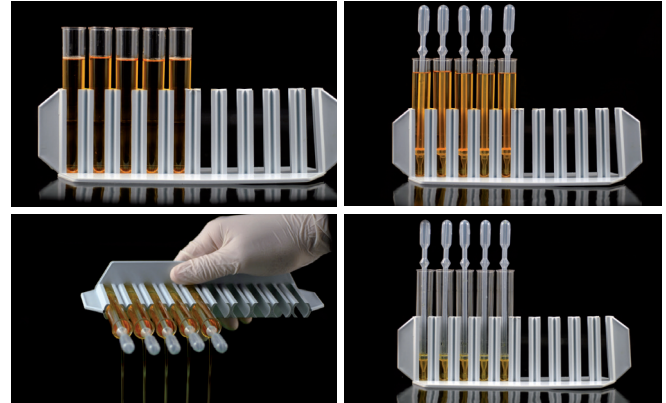
- Used for urine examinations, avoids overlapping of epithelial cells during sedimentation
- M-T® transfer pipettes: special calibration for blocking 1 ml of sample at the bottom of the tube
- Tubes for M-T® system: 16 x 103 mm, PS transparent, graduation 1/2,5/5/10 ml

Part no.	Designation	€
390508	1000 M-T® transfer pipettes + 1000 tubes of 10 ml	NC -
391536	Rack For 10 tubes	NC -
390503	Kit of 100 Fast-read® slides 10 chambers + 1000 M-T® transfer pipettes	NC -
390506	Kit of 100 Fast-read® slides 10 chambers + 1000 M-T® transfer pipettes + 1000 x 10 ml tubes + 1000 caps	NC -
390522	Conical tubes 16 x 103 mm graduated in PS (2000 units)	NC -
390523	Conical tubes 16 x 103 mm graduated in PS (2000 units)	NC -
390517	Tri-bulb pipettes for M-T® system (all 3000)	NC -



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 obtain 1 ml of resuspended sediment ready for analysis on a Fast-Read 102® slide



ClearTime I ClearLine® timer



- Up/down counter
- Fast incrementing
- 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

Part no.	Designation	€
257091	ClearTime I timer	NC -

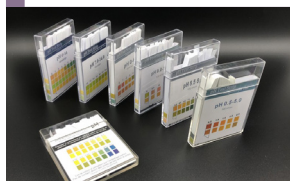
ClearLine® ClearTime II timer



- 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

Part no.	Designation	€
257092	ClearTime II timer	NC -

Clearline pH paper



- Impregnated with one or more indicator solutions
- Fast playback

Value	0	1	2	3	4	5	6	7	8	9	10	
0-10	0	1	2	3	4	5	6	7	8	9	10	
0.5-5.5	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	
1-11	1	2	3	4	5	6	7	8	9	10	11	
1-14	1	2	3	4	5	6	7	8	9	10	12	14
3.8-5.4	3.8	4.1	4.4	4.6	4.8	5.1	5.4					
4.0-7.0	4	4.5	5	5.5	6	6.5	7					
5.5-9.0	5.5	6	6.5	7	7.5	8	8.5	9				
6.4-8.0	6.4	6.7	7	7.2	7.5	7.7	8					
6.5-10	6.5	7	7.5	8	8.5	9	9.5	10				
9.5-13	9.5	10	10.5	11	11.5	12	12.5	13				

Range	5 m roll	Refill of roll x3	Book of 100 strips	Flask of 200 strips
0-10	258287	258297	258304	258312
0.5-5.5	258288	258298	258305	258313
1-11	258289	258299	258306	258314
1-14	258290	258300	258307	258315
3.8-5.4	258291	-	258308	258316
4.0-7.0	258292	-	-	258317
5.5-9.0	258293	258301	258309	258318
6.4-8.0	258294	258302	258310	258319
6.5-10	258295	-	-	-
9.5-13	258296	258303	258311	258320
€	NC -	NC -	NC -	NC -

EZ-7 ClearLine® benchtop PH meter

ClearLine®

A reliable, cost-effective bench-top instrument for routine pH measurements.

- Economic model
- Easy to use
- Automatic temperature compensation (ATC)
- Integrated electrode holder
- Hold function and stability indicator
- Supplied with electrode and arm



pH	Measuring range: -2.00 to 16.00 Resolution: 0.01 Accuracy: ± 0.01
mV	Measuring range: ± 2000 Resolution: 0.1 (up to ±199.9) Accuracy: ± 0.02 (up to ±199.9)
Temperature	Measuring range: 0.0 to 100.0 Resolution: 0.1 Accuracy: ± 0.3
Calibration	Up to 5 points
Memory	100 values
IP	-
Dimensions (cm)	15.5 x 17.5 x 6.9
Weight (kg)	0.65
Part no.	258269
€	NC -



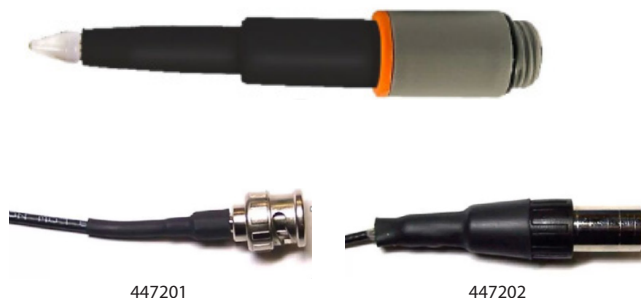
Penetration electrode

PH range	0 - 14
Range of use	0 to 50 °C
Part number	Ag/AgCl gel
Diaphragm	double junction - open
Electrolyte	Maintenance-free gel
Filter	PVC
Membrane depth	12 - 15 mm
Connection	S7
Part no.	447200
€	NC -

Cable

- Length 1 m
- For S7 electrode

Part no.	Connection	€
447201	BNC	NC -
447202	DIN	NC -



96-well microplates



- Polystyrene
- Individual packaging

Part no.	Bottom	Sterile	Units/box	€/box
390963	U	No	50	NC -
390966	U	Yes	50	NC -
390964	V	No	50	NC -
390967	V	Yes	50	NC -
390965	Flat	No	50	NC -
390968	Flat	Yes	50	NC -

Lids

Part no.	Sterile	Units/box	€/box
390969	No	50	NC -
390970	Yes	50	NC -



U bottom



V bottom



Flat bottom



ClearLine® heat-sealable films

- Available in 2 formats:
 - sheet format for manual or semi-automatic heat sealers
 - roll format for automatic heat sealers, Agilent VII Plateloc, REMF (LHS / SHS), ALPS 5000 and IntelliXseal

Photo	Model	Description	Applications	Operating temperatures	Compatible plates	Part no.	Conditioning	Dimensions	€
	AirSeal	Gas-permeable non-woven film for cell culture	Cell culture, incubation and short-term storage	20 °C to 80 °C	Polypropylene (PP), Polystyrene (PS)	257135	1 roll	610 m x 78 mm	NC -
						257137	100 sheets	125 x 78 mm	NC -
						257136	1 roll	500 m x 115 mm	NC -
	AirSeal II	Smooth, gas-permeable woven film for cell culture	Cell culture, incubation and short-term storage	20 °C to 80 °C	Polypropylene (PP), Polystyrene (PS), Cyclic Olefin Copolymer (COC), Polycarbonate (PC)	257138	1 roll	610 m x 78 mm	NC -
						257140	100 sheets	125 x 78 mm	NC -
						257139	1 roll	500 m x 115 mm	NC -
	XCutSeal	Perforated, gas-permeable transparent film suitable for cell culture and seed storage	Cell culture, incubation and short-term storage	20 °C to 80 °C	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclic Olefin Copolymer (COC), Polycarbonate (PC)	257141	1 roll	610 m x 78 mm	NC -
						257143	100 sheets	125 x 78 mm	NC -
						257142	1 roll	500 m x 115 mm	NC -

0.65 ml and 1.1 ml ClearLine® storage tubes



- Polypropylene tubes in bulk or on 96 racks
- 1.1 ml tubes, individual or in strips of 8 or 12
- Polyethylene domed caps in strips of 8 or 12
- ANSI format
- Autoclavable
- Storage up to -80 °C

Volume	0.65 ml						1.1 ml					
	Bulk		On a rack				Bulk		On a rack			
Type	Individual tubes			Individual tubes	8-tube strip	12-tube strip	Individual tubes		8-tube strip		12-tube strip	
Sterile	No	No	Yes	No	No	No	No	Yes	No	Yes	No	Yes
Units/box	960	10 x 96	10 x 96	960	120	80	10 x 96	10 x 96	12 x 10	12 x 10	8 x 10	8 x 10
Part no.	007863ACL	007864ACL	007865ACL	007866ACL	007869ACL	007872ACL	007867ACL	007868ACL	007870ACL	007871ACL	007873ACL	007874ACL
€/ box	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -

Caps

Type	8-Cap strips		12-Cap strips	
	No	Yes	No	Yes
Units/box	120	120	80	80
Part no.	007875ACL	007876ACL	007877ACL	007878ACL
€/ box	NC -	NC -	NC -	NC -

Accessory

Cat. No.	Designation	Units/box	€/ box
007879CL	Empty rack with lid	50	NC -

Prices are indicative and excluding tax. Visit Dutscher.com

ClearLine® serological pipettes

ClearLine



- Made of crystal polystyrene
- Sterile
- Colour code

Vol. (ml)	Graduation (ml)	Colour code	Part no.	Individual packaging paper/plastic			In bulk			
				Units/bag	Units/box	€/box	Part no.	Units/bag	Units/box	€/box
1	0.01	Yellow	257000	100	1000	NC -	257005	25	1000	NC -
2	0.01	Green	257001	100	1000	NC -	257006	25	1000	NC -
5	0.1	Blue	257002	50	200	NC -	257007	25	500	NC -
10	0.1	Red	257003	50	200	NC -	257008	25	500	NC -
25	0.25	Magenta	257004	50	200	NC -	257009	10	200	NC -
50	1	Black	390915	-	100	NC -	-	-	-	-
100	1	Grey	390916	-	50	NC -	-	-	-	-

ClearLine® Prime serology pipettes

ClearLine



- Polystyrene
- Sterile
- Colour code

Volume (ml)	Graduated (ml)	Colour code	Part no.	Individual paper/plastic packaging			In bulk			
				Units/bag	Units / carton	€/box	Part no.	Units/bag	Units / carton	€/box
1	0.01	Yellow	258333	100	1000	NC -	258334	25	1000	NC -
2	0.01	Green	258335	100	800	NC -	258336	25	800	NC -
5	0.1	Blue	258337	50	300	NC -	258338	25	500	NC -
10	0.1	Orange	258343	50	200	NC -	258344	25	350	NC -
25	0.2	Red	258339	50	200	NC -	258340	25	350	NC -
50	1	Purple	258341	25	100	NC -	258342	25	100	NC -

ClearLine® Pipette Controller

ClearLine



- For plastic and glass pipettes from 0.5 to 100 ml
- Lightweight, ergonomic
- Adjustable suction and delivery speeds
- Autoclavable nose at 121°C

Supplied with:

- + charging cradle;
- + 0.2 µm PTFE filter;
- + Ni-MH AA 1300 mAh 2.4 V battery;
- + wall bracket.

Part no.	Designation	€
060863	ClearLine® Pipette Controller	NC -

Accessoires

Cat. No.	Designation	€
060873	Replacement nosepiece	NC -
060874	Silicone tip pipette holder	NC -
257151	PTFE hydrophobic filter 0.2 µm (5 units)	NC -
060877	Connector joint	NC -
060878	Charging station	NC -
257211	Sterile syringe filter PTFE 0.22 µm, 33 mm (50 units)	NC -
257213	Sterile syringe filter PTFE 0.45 µm, 33 mm (50 units)	NC -

SLS Select reagent dispensers

SCIENTIFIC LABORATORY SUPPLIES



- Precise and lockable volume control
- Antidrip Cap
- Easy calibration by the user
- Fully autoclavable at 121°C
- Delivered with certificate, calibration key, GL 25, GL 38, GL 40 and GL 45 adapters

Part no.	Volume (ml)	Graduated (ml)	€
257148	1 - 10	0.2	NC -
257149	2.5 - 30	0.5	NC -
257150	5 - 60	1.0	NC -

ClearLine® micropipettes

- Light
- Soft spring system for working comfort
- Adjusting the height of the ejection system
- Volume lock
- Fully autoclavable
- UV-resistant



ClearLine® single-channel micropipettes

Volume (µl)	Colour code	Part no.	€	Part no. Cofrac certified*	€
0.1 - 2	Red	257029	NC -	257029C	NC -
0.5 - 10	Red	257030	NC -	257030C	NC -
2 - 20	Yellow	257031	NC -	257031C	NC -
10 - 100	Yellow	257032	NC -	257032C	NC -
20 - 200	Yellow	257033	NC -	257033C	NC -
100 - 1000	Blue	257034	NC -	257034C	NC -
500 - 5000	White	257035	NC -	257035C	NC -
1000 - 10000	White	257036	NC -	257036C	NC -

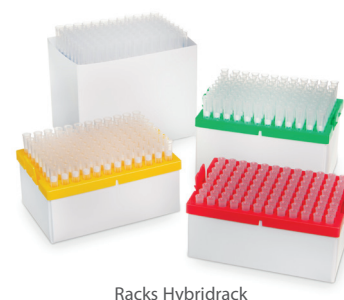
ClearLine® multichannel micropipettes

Volume (µl)	Colour code	8 channels				12 channels			
		Part no.	€	Part no. Cofrac certified*	€	Part no.	€	Part no. Cofrac certified*	€
0.5-10	Red	257037	NC -	257037C	NC -	257041	NC -	257041C	NC -
5 - 50	Yellow	257038	NC -	257038C	NC -	257042	NC -	257042C	NC -
20 - 200	Yellow	257039	NC -	257039C	NC -	257043	NC -	257043C	NC -
50 - 300	Green	257040	NC -	257040C	NC -	257044	NC -	257044C	NC -

* Cofrac certified micropipettes (3 volumes, 10 weighings) provided with certificate.

ClearLine Plus and Hybridrack tips

- Polypropylene filter and non-filter tips
- ClearLine Plus: hinged rack made of recyclable plastic (see our recycling programme on Dutscher.com)
- ClearLine HybridRack: cardboard rack with recyclable top tray (see our recycling programme on Dutscher.com)
- 2 surface options: standard or low binding
- Colour-coded
- Refill available



Racks Hybridrack

Non-filter Tips

Vol. (µl)	Description	Tray colour	Graduation	Units/box	ClearLine Plus				ClearLine Plus on refill		ClearLine Hybridrack			
					Standard tips		Low binding tips		Standard tips		Standard tips			
					Non sterile	€	Sterile	€	Sterile	€	Non sterile	€	Sterile	€
10	Long tip 45 mm	Red	2, 5, 10 µl	10 x 96	713275	NC -	713276	NC -	713277	NC -	713268	NC -	258361	NC -
10	Long fine point 45 mm	Red	1, 2, 5, 10 µl	10 x 96	713245	NC -	713246	NC -	713247	NC -	-	-	-	-
200	Universal tip - length 51.5	Yellow	10, 50, 100 µl	10 x 96	713248	-	713249	NC -	713250	NC -	713269	NC -	258362	NC -
300	Universal tip - length 59 mm	Green	10, 50, 100 µl	10 x 96	713251	NC -	713252	NC -	713253	NC -	713270	NC -	258363	NC -
300	Long tip 78 mm	Green	10, 50, 100, 200, 300 µl	8 x 96	258328	NC -	258329	NC -	-	-	-	-	258364	NC -
1250	Long tip 102 mm	Blue	200, 500, 1000 µl	8 x 96	713254	NC -	713255	NC -	-	-	713271	NC -	258365	NC -

Prices are indicative and excluding tax. Visit Dutscher.com

ClearLine Plus and Hybridrack tips (continued)

Bulk ClearLine tips without filter

Vol. (µl)	Description	Graduation	Units/box	Standard tips						Low binding tips					
				Part no.	Units/box	€	Part no.	Units/box	€	Part no.	Units/box	€	Part no.	Units/box	€
10	Long tip 45 mm	2, 5, 10 µl	10 x 96	258272	10 x 1000	NC -	258272A	1000	NC -	258273	10 x 1000	NC -	258273A	1000	NC -
10	Long fine point 45 mm	1, 2, 5, 10 µl	10 x 96	258270	10 x 1000	NC -	258270A	1000	NC -	258271	10 x 1000	NC -	258271A	1000	NC -
200	Universal tip - length 50.7 mm	10, 50, 100 µl	10 x 96	258274	10 x 1000	NC -	258274A	1000	NC -	258275	10 x 1000	NC -	258275A	1000	NC -
300	Universal tip - length 59 mm	10, 50, 100 µl	10 x 96	258276	10 x 1000	NC -	258276A	1000	NC -	258277	10 x 1000	NC -	258277A	1000	NC -
1250	Long tip 102 mm	200, 500, 1000 µl	8 x 96	258278	10 x 1000	NC -	258278A	1000	NC -	-	-	-	-	-	-

Accessoires

Part no.	Designation	€
713257	Empty box for ClearLine® Plus 10, 200 and 300 µl refill	NC -
713258	Empty box for ClearLine® Plus 1000 and 1250 µl refill	NC -



Use your tips and recycle everything else!
 Cardboard rack -> Selective sorting
 Tips tray -> Dutscher recycling programme

Filter tips

Vol. (µl)	Description	Tray colour	Graduation	Units/box	ClearLine Plus		ClearLine Hybridrack	
					Low binding tips	€	Low binding tips	€
10	Long tip 45 mm	Red	2, 5, 10 µl	10 x 96	713278	NC -	258355	NC -
10	Long fine point 45 mm	Red	1, 2, 5, 10 µl	10 x 96	713260	NC -	-	-
20	Universal tip - length 51.5 mm	Yellow	10, 50, 100 µl	10 x 96	713261	NC -	258356	NC -
100	Universal tip - length 51.5 mm	Yellow	10, 50, 100 µl	10 x 96	713262	NC -	258357	NC -
200	Universal tip - length 59 mm	Yellow	10, 50, 100 µl	10 x 96	713263	NC -	258358	NC -
200	Polyvalent tip for 20, 100 or 200 µl micropipette - length 78 mm	Yellow	10, 50, 100, 200, 1000 µl	8 x 96	713264	NC -	258367	NC -
300	Long tip 78 mm	Green	10, 50, 100, 200, 1000 µl	8 x 96	713265	NC -	258359	NC -
1250	Long tip 102 mm	Blue	200, 500, 1000 µl	8 x 96	713266	NC -	258360	NC -

ClearLine® Prime filterless and filtered tips on hinged rack



- Sterile tips with or without filter
- Low-retention filter tips: maximum sample recovery for accurate volume distribution
- Universal compatibility

As part of our commitment to the environment, the rack has been lightened in terms of plastic

ClearLine® Prime sterile filter tips on hinged rack

Vol. (µl)	Description	Tray colour	Unit of emb.	Filter tip, sterile, low binding	
				Part no.	€
10	10 µl graduated tip length: 31.24 mm	Red	10 x 96	257517	NC -
10	10 µl long graduated tip length: 45.87 mm	Red	10 x 96	257509	NC -
20	20 µl graduated tip length: 50.75 mm	Yellow	10 x 96	257510	NC -
100	100 µl graduated tip length: 59.54 mm	Yellow	10 x 96	257511	NC -
200	200 µl graduated tip length: 59.54 mm	Yellow	10 x 96	257512	NC -
300	300 µl graduated tip length: 59.54 mm	Green	10 x 96	257518	NC -
1000	1000 µl graduated tip length: 81.78 mm	Blue	8 x 96	257513	NC -
1250	1000µl long graduated tip length: 98.40 mm	Blue	8 x 96	257514	NC -

ClearLine® Prime sterile non-filter tips on hinged rack

Vol. (µl)	Description	Tray colour	Unit of emb.	Non-filter tip, sterile, standard		Non-filter tip, sterile, low binding	
				Part no.	€	Part no.	€
10	10 µl graduated tip length: 31.24 mm	Red	10 x 96	257520	NC -	257526	NC -
10	10 µl long graduated tip length: 45.84 mm	Red	10 x 96	257519	NC -	257525	NC -
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
200	200 µl graduated tip length: 50.75 mm	Yellow	10 x 96	257521	NC -	257527	NC -
300	300 µl graduated tip length: 59.54 mm	Green	10 x 96	257522	NC -	257528	NC -
1000	1000 µl graduated tip length: 83.09 mm	Blue	8 x 96	257523	NC -	257529	NC -
1250	1000 µl long graduated tip length: 98.40 mm	Blue	8 x 96	257524	NC -	257530	NC -



Recycling plastic waste related to tips from the Multi Sorenson/ClearLine® range

Dutscher offers customers of the Multi Sorenson/ClearLine® range a free collection and recycling service for their pipette tip-related waste.

From the provision of the recycling box to its collection, all the logistics are managed by Dutscher.


Find out more about this service on Dutscher.com

ClearLine® hinged rack charging system

- Simple and fast charging system
- Standard or low binding tips, non-sterile, no filter, universal compatibility
- Ecological: cardboard packaging (reduction of plastic waste linked to the packaging of refill towers)
- Very small footprint: system requires 57% less storage space than other systems
- ClearLine® Prime refill trays are compatible with hinged racks of ClearLine® Prime filter tips
- Available in Cleanpack resealable bags



Box sold separately from refill

Volume (µl)	Description	Tray colour	Standard tip refill						Low binding tip refill					
			Cardboard support			Cleanpack bag			Cardboard support			Cleanpack bag		
			Part no.	Unit of emb.	€	Part no.	Unit of emb.	€	Part no.	Unit of emb.	€	Part no.	Unit of emb.	€
10	10 µl graduated tip length: 31.24 mm	Red	257764	10 x 96	NC -	257531	5 x 960	NC -	257770	10 x 96	NC -	257537	5 x 960	NC -
														
10	10 µl long graduated tip, length: 45.84 mm	Red	257765	10 x 96	NC -	257532	5 x 960	NC -	257771	10 x 96	NC -	257538	5 x 960	NC -
														
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200	200 µl graduated tip length: 50.75 mm	Yellow	257766	10 x 96	NC -	257533	5 x 960	NC -	257772	10 x 96	NC -	257539	5 x 960	NC -
														
300	300 µl graduated tip length: 59.54 mm	Green	257767	10 x 96	NC -	257534	5 x 960	NC -	257773	10 x 96	NC -	257540	5 x 960	NC -
														
1000	1000 µl graduated tip length: 81.78 mm	Blue	257768	8 x 96	NC -	257535	4 x 960	NC -	257774	8 x 96	NC -	257541	4 x 960	NC -
														
1250	1000 µl long graduated tip length: 98.40 mm	Blue	257769	8 x 96	NC -	257536	4 x 960	NC -	257775	8 x 96	NC -	257542	4 x 960	NC -
														

NB: Photos are not to scale

Empty tins for ClearLine® refill system

Part no.	Designation	Units/box	€/box
257515	ClearLine® empty box for 10 µl to 300 µl tips	10	NC -
257516	ClearLine® empty box for 1000 µl to 1250 µl tips	8	NC -

Baird-Parker

Recommended for the detection and enumeration of coagulase-positive staphylococci, including *Staphylococcus aureus* in food.

- Storage: 2 - 25 °C (for dehydrated media) and 2 - 8 °C (for ready-to-use media)
- Incubation: 35 ± 2 °C for 24 - 48 h
- Incubation for ISO 11133: 37 ± 1 °C for 24 ± 2 h then 24 ± 2 h more

Ready-to-use media

Part no.	Designation	Cond.	€
693396	Baird-Parker ClearLine® agar - 90 ml flask	10	NC -
693350	Baird-Parker ClearLine® agar - 100 ml flask	10	NC -

B.C.P. -Bromocresol Purple Lactose Agar - ISO 21528

Differential medium to help identify lactose-fermenting and non-lactose-fermenting Enterobacteriaceae.

- Storage: 2 - 25 °C (Dehydrated medium and ready-to-use medium)
- Incubation: 35 ± 2 °C for 18 to 24 h

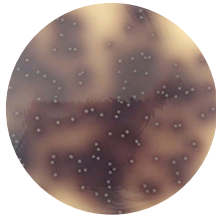
Ready to use

Part no.	Designation	Cond.	€
693351	100 ml flask for bromocresol purple lactose agar - ClearLine®	10	NC -

B.E.A - Bile esculin azide (agar) ISO 7899-2

For the selective isolation and identification of enterococci by the membrane filtration method.

- Storage: 2 - 25 °C (dehydrated base and ready-to-use medium)
- Incubation: 36 ± 2 °C for 44 ± 4 h



Ready-to-use media

Part no.	Designation	Cond.	€
693352	100 ml bottle of B.E.A. agar (bile esculin azide agar) - ISO 7899-2 - ClearLine	10	NC -

Cetrimide (agar)

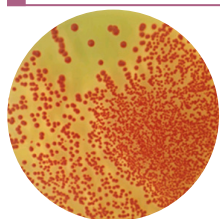
For the isolation and presumptive identification of *Pseudomonas aeruginosa*. Cetrimide is a quaternary ammonium that inhibits the growth of most other bacterial species. *Pseudomonas aeruginosa* stains this medium blue-green by producing pyocyanin.

- Storage: 2 - 25 °C (dehydrated base and ready-to-use medium)
- Incubation: 35 °C ± 2 °C for 18 - 24 h

Ready-to-use media

Part no.	Designation	Cond.	€
693319	100 ml bottle of cetrimide agar - ClearLine®	10	NC -

Chapman TTC (lactose agar with tergitol 7)



For the detection and enumeration of *Escherichia coli* and coliforms in water by the membrane filtration technique.

- Storage: 2 - 25 °C (dehydrated base and ready-to-use medium)
- Incubation: 36 ± 2 °C and 44 ± 4 °C for 21 ± 3 h

Ready-to-use media

Part no.	Designation	Cond.	€
693327	100 ml bottle of Tergitol 7 agar - ClearLine®	10	NC -

Brain heart (broth) (Brain heart Infusion)

Rich medium used for the cultivation of demanding germs. Its use is recommended for the detection of *Staphylococcus aureus* in food.

- Storage: 2 - 25 °C (dehydrated base and ready-to-use medium)
- Incubation: 35 °C - 37 °C for 24 - 48 h

Ready-to-use media

Part no.	Designation	Cond.	€
693353	100 ml bottle of heart-and-brain broth ISO 6888 - ClearLine®	10	NC -

Chapman (agar)

Used for the isolation of pathogenic *Staphylococci* which give yellow colonies by fermentation of mannitol and turning red with phenol. Its high sodium chloride content inhibits the growth of most other species.

- Storage: 2 - 25 °C (dehydrated base and ready-to-use medium)
- Incubation: 35 ± 2 °C for 18 - 24 h

Ready-to-use media

Part no.	Designation	Cond.	€
693444	200 ml bottle of Chapman agar - ClearLine®	6	NC -

Thinner pH 7 with Tween 80 (1%)

For multiple flora detection. The addition of Tween 80 allows for neutralisation and better homogenisation of certain preparations.

- Storage: 2 - 25 °C

Part no.	Designation	Cond.	€
693309	9 ml tube of pH 7 diluent with Tween 80 (1 %) - ClearLine®	100	NC -
693398	90 ml bottle of pH 7 diluent with Tween 80 (1 %) - ClearLine®	10	NC -
693359	100 ml bottle of pH 7 diluent with Tween 80 (1 %) - ClearLine®	10	NC -

Columbia (agar)

For the detection of slow growing germs. Can be used with or without the addition of blood.

- Storage: 2 - 25 °C (dehydrated medium and ready-to-use medium)
- Incubation: 35 °C ± 2 °C, under atmosphere 5-10 % CO₂ for 48 h

Ready-to-use media

Part no.	Designation	Cond.	€
693354	Columbia agar - ClearLine® - 100 ml bottle	10	NC -

D/E (Dey-Engley) Neutralizing Broth

For the determination of antiseptics and disinfectants.

- Storage: 2 - 8 °C
- Incubation: 37 °C for 48 h

Part no.	Designation	Cond.	€
693397	90 ml bottle of D/E neutralising enumeration broth - ClearLine®	10	NC -
693355	100 ml bottle of D/E neutralising enumeration broth - ClearLine®	10	NC -

DRBC (Agar) - Dichloran Rose Bengal Chloramphenicol

Recommended for the detection and enumeration of yeasts and moulds in products intended for animal or human consumption with an aw of > 0.95.

- Storage: 2 - 8 °C
- Incubation: 25 °C for 2-5 days

Part no.	Designation	Cond.	€
693360	100 ml bottle of DRBC agar - ClearLine®	10	NC -

Thinner pH 7

For multiple flora detection.

- Storage: 2 - 25 °C

Part no.	Designation	Cond.	€
693426	9 ml tube of pH 7 diluent - ClearLine®	100	NC -

Thinner pH 7 with neutralizer

For multiple flora detection.

- Storage: 2 - 25 °C

Part no.	Designation	Cond.	€
693427	9 ml tube of pH 7 diluent with neutralizer - ClearLine®	100	NC -
693446	200 ml bottle of pH 7 diluent with neutralizer - ClearLine®	6	NC -
693442	300 ml bottle of pH 7 diluent with neutralizer - ClearLine®	4	NC -

Sterile distilled water

For dilutions or making bacterial suspensions.

- Storage: 2 - 25 °C
- Maximum conductivity 10 µS/cm

Part no.	Designation	Cond.	€
693310	10 ml tube sterile distilled water - ClearLine®	100	NC -

Buffered peptone water double concentration

Thinner used for the preparation of food samples. The double buffer concentration allows it to be used with highly acidic or alkaline products.

- Storage: 2 - 25 °C
- Incubation: depending on the protocol

Part no.	Designation	Cond.	€
693335	225 ml bottle of double-concentration buffered peptone water - ClearLine®	6	NC -

Buffered peptone water

Thinner used for the preparation of food samples. It is used in particular as a non-selective pre-enrichment medium for the detection of salmonella in accordance with standard 6579, as a diluent for the enumeration of micro-organisms in accordance with standard 6887, and as a diluent for the enumeration of *Listeria monocytogenes* in accordance with standard EN ISO 11290-2.

- Storage: 2 - 25 °C (dehydrated medium and ready-to-use medium)
- Incubation: 37 ± 2 °C for 24 h

Ready-to-use media

Part no.	Designation	Cond.	€
693429	9 ml tube of buffered peptone water - ClearLine®	100	NC -
693400	90 ml bottle of buffered peptone water - ClearLine®	10	NC -

Sterile physiological water (0.85%)

Isotonic diluent used for dilutions or to produce bacterial suspensions.

- Storage: 2 - 25 °C

Part no.	Designation	Cond.	€
693462	2 ml sterile physiological water (0.85%) tube - ClearLine®	6	NC -
693423	2 ml sterile physiological water (0.85%) tube - ClearLine®	100	NC -

Alkaline peptone water

For the enrichment of *Vibrio* in food samples, water.

- Storage: 2 - 25 °C (dehydrated medium and ready-to-use medium)
- Incubation: 35 ± 2 °C for 24 h

Ready-to-use media

Part no.	Designation	Cond.	€
693428	9 ml tube of alkaline saline peptone water - ClearLine®	100	NC -
693456	225 ml bottle of alkaline saline peptone water - ClearLine®	6	NC -

Buffered peptone water with neutralizer

Thinner used for the preparation of food samples. In particular for pre-enrichment and for the recovery of salmonella before selective enrichment and isolation. The addition of Tween 80 allows for neutralisation and better homogenisation of certain preparations.

- Storage: 2 - 25 °C
- Incubation: 37 °C for 24 h

Part no.	Designation	Cond.	€
693458	225 ml bottle of buffered peptone water with neutralising agent (10%) - ClearLine®	6	NC -

Buffered peptone water + tween 80 (4 g/l)

For the recovery of salmonella from foods with selective enrichment and isolation.

- Storage: 2 - 25 °C
- Incubation: 37 °C for 24 h

Part no.	Designation	Cond.	€
693459	225 ml bottle of buffered peptone water + Tween 80 (4 g/l) - ClearLine®	6	NC -

Eugon LT100 (broth)

For the enrichment of micro-organisms. Recommended for enumerating aerobic mesophilic bacteria, yeasts and moulds, *Pseudomonas aeruginosa* and *Staphylococcus aureus*.

- Storage: 2 - 25 °C (Dehydrated medium and ready-to-use medium)
- Incubation: 30 - 35 °C for 24 to 72 h

Ready-to-use media

Part no.	Designation	Cond.	€
693300	9 ml tube of eugon broth LT100 - ClearLine®	100	NC -
693401	90 ml eugon broth LT100 - ClearLine® bottle	10	NC -

Fraser

For the detection and enumeration of *Listeria* in food products.

- Storage: 2 - 25 °C (for the base) and 2 - 8 °C (for the ready-to-use medium)
- Incubation: 30°C ± 1°C for 24 hours ± 2 hours

Ready-to-use media

Part no.	Designation	Cond.	€
693409	10 ml tube of Fraser broth conforming to ISO 11290-1 - ClearLine®	100	NC -

Half Fraser

For the detection and enumeration of *Listeria* in food products.

- Storage: 2 - 25 °C (for the base) and 2 - 8 °C (for ready-to-use medium)
- Incubation (according to standard 11290): 30 °C for 25 hours ± 1 hour

Ready-to-use media

Part no.	Designation	Cond.	€
693460	225 ml Fraser demi broth bottle - ClearLine®	6	NC -

Lactose sulphite (broth)

For the culture of coliforms and salmonella in water, food, dairy products.

- Storage: 2 - 25 °C for the dehydrated base and 2 - 8 °C for the ready-to-use tubes
- Incubation: 46 °C for 18 - 24 h

Ready-to-use media

Part no.	Designation	Cond.	€
693314	8 ml tube with Durham bell lactose sulphite broth - ClearLine®	100	NC -
693408	9 ml tube with Durham bell lactose sulphite broth - ClearLine®	100	NC -

Kligler Hajna (agar)

For the presumptive identification of enterobacteria based on the fermentation of glucose, lactose, sucrose and the production of gas and H₂S.

For the detection of salmonella in products, food and dairy products.

- Storage: 2 - 25 °C in the dark
- Incubation: 37 °C for 18 - 24 h

Part no.	Designation	Cond.	€
693436	Kligler Hajna agar slant tube - ClearLine®	100	NC -

LB Lennox base (broth)

Broth recommended in molecular microbiology for culturing *Bacillus subtilis*, *Daptobacter* and recombinant strains of *Escherichia coli*.

Composition (g/l):

Tryptone	10	Sodium chloride	5
Yeast extract	5	-	-

- Storage: 2 - 25 °C (dehydrated medium) 2 - 8 °C (for vials)
- Incubation: 35 °C ± 2 °C for 18 - 24 h

Part no.	Designation	Cond.	€
693362	LB Lennox Broth - 100 ml bottle - ClearLine®	10	NC -

LB Lennox formulation (agar)

A medium recommended in molecular microbiology for the culture of *Bacillus subtilis*, *Daptobacter* and recombinant strains of *Escherichia coli*.

Composition (g/l):

Tryptone	10	Sodium chloride	5
Yeast extract	5	Agar	15

- Storage: 2 - 25 °C (dehydrated medium) 2 - 8 °C (for vials)
- Incubation: 35 °C ± 2 °C for 18 - 24 h

Part no.	Designation	Cond.	€
693363	LB Lennox agar - 100 ml bottle - ClearLine®	10	NC -

Luria LB base (agar)

Medium recommended in molecular microbiology for culturing *Bacillus subtilis*, *Daptobacter* and recombinant strains of *Escherichia coli*.

Composition (g/l):

Tryptone	10	Sodium chloride	0.5
Yeast extract	5	Agar	15

- Storage: 2 - 25 °C (dehydrated medium) 2 - 8 °C (for vials)
- Incubation: 35 °C ± 2 °C for 18 - 24 h

Part no.	Designation	Cond.	€
693365	100 ml bottle of Luria formulation LB agar - ClearLine®	10	NC -

Miller-Luria LB base (broth)

Medium recommended in molecular microbiology for culturing *Bacillus subtilis*, *Daptobacter* and recombinant strains of *Escherichia coli*.

Composition (g/l):

Tryptone	10	Sodium chloride	10
Yeast extract	5	-	-

- Storage: 2 - 25 °C (dehydrated medium) 2 - 8 °C (for vials)
- Incubation: 35 °C ± 2 °C for 18 - 24 h

Part no.	Designation	Cond.	€
693366	LB formulation Miller broth 100 ml bottle - ClearLine®	10	NC -

Letheen (broth)

Used in the cosmetics industry to neutralise the action of conservatives before microbiological examination or to determine the bactericidal activity of quaternary ammoniums.

- Storage: 2 - 8 °C

Part no.	Designation	Cond.	€
693430	9 ml tube Letheen broth - ClearLine®	100	NC -
693411	10 ml tube Letheen broth - ClearLine®	100	NC -
693323	100 ml bottle Letheen broth - ClearLine®	10	NC -

Modified Letheen (broth)

To neutralise the action of conservatives before microbiological examination.

- Storage: 2 - 25 °C (for dehydrated base) and 2 - 8 °C (for ready-to-use media)

Ready-to-use media

Part no.	Designation	Cond.	€
693431	9 ml tube of modified letheen broth - ClearLine®	100	NC -
693402	90 ml bottle of modified letheen broth - ClearLine®	10	NC -
693447	200 ml bottle of modified letheen broth - ClearLine®	6	NC -

Mac Conkey (broth) - according to pharmacopoeia

For the detection of coliforms in water, milk and pharmaceutical preparations.

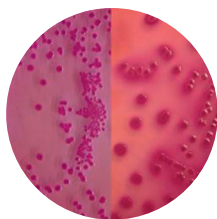
- Storage: 2 - 25 °C (dehydrated base and ready-to-use medium)
- Incubation: 42 - 44 °C for 24 - 48 h

Ready-to-use media

Part no.	Designation	Cond.	€
693302	100 ml bottle of Mac Conkey broth - ClearLine®	10	NC -

Mac Conkey (agar) - according to pharmacopoeia

Differential medium to help identify lactose-fermenting and non-lactose-fermenting Enterobacteriaceae. It is recommended for the detection of escherichia coli in water, food, dairy products and pharmaceutical preparations.



Enterobacter aerogenes Escherichia coli

- Storage: 2 - 25 °C (dehydrated base and ready-to-use medium)
- Incubation
- According to ISO 21567: 37 ± 1 °C for 20 - 24 h
- According to ISO 21150: 30 - 35 °C for 24 h

Ready-to-use media

Part no.	Designation	Cond.	€
693369	100 ml bottle of Mac Conkey broth* - ClearLine®	10	NC -
693448	100 ml bottle of Mac Conkey broth* - ClearLine®	6	NC -

* Not in accordance with the pharmacopoeia

Malt (Agar)

Recommended for the detection, isolation and enumeration of yeasts and moulds.

- Storage: 2 - 25°C (dehydrated base) - 2 - 8°C (ready-to-use medium)
- Incubation: 25 - 30 °C for 18 - 72 h

Ready-to-use media

Part no.	Designation	Cond.	€
693437	Malt extract agar slant tube - ClearLine®	100	NC -
693370	100 ml bottle of malt extract agar - ClearLine®	10	NC -

Mannitol mobility nitrate

For the presumptive identification of Enterobacteriaceae based on mannitol fermentation, germ mobility and nitrate to nitrite reduction.

- Storage: 2 - 25°C (dehydrated base) - 2 - 8°C (ready-to-use medium)
- Incubation: 35 ± 2 °C for 18 - 24 h

Ready-to-use media

Part no.	Designation	Cond.	€
693461	10 ml mannitol nitrate mobility tube - ClearLine®	6	NC -
693412	10 ml mannitol nitrate mobility tube - ClearLine®	100	NC -

MRS deMan,Rogosa, Sharpe (Broth)

For lactobacillus culture.

- Storage: 2 - 25 °C (for dehydrated base) and 2 - 8 °C (for ready-to-use media)
- Incubation: 35 °C for 3 days or 30 °C for 5 days in a CO₂enriched atmosphere

Ready-to-use media

Part no.	Designation	Cond.	€
693432	9 ml tube of MRS broth - ClearLine®	100	NC -
693344	100 ml bottle of MRS broth - ClearLine®	10	NC -

Mossel (Broth) - EE (Broth)

Enrichment broth for Enterobacteriaceae according to Mossel is a selective medium recommended for the investigation of Enterobacteriaceae in foods. Complies with the European Pharmacopoeia.

- Storage: 2 - 30°C (dehydrated base) - 2 - 8°C (ready-to-use medium)
- Incubation: 37 °C for 24 - 48 h

Ready-to-use media

Part no.	Designation	Cond.	€
693413	9 ml tube of Mossel* broth - ClearLine®	100	NC -
693371	100 ml bottle of Mossel broth - ClearLine®	10	NC -

* Not in accordance with the pharmacopoeia

Universal neutralizer

The neutralizer mixture is added to the pre-enrichment medium whenever the presence of disinfectant solution is known or suspected. As a general rule, this mixture should be used at a rate of 10% of the final volume of the pre-enrichment medium.

- Storage: 15 - 25 °C in the dark

Formula in g/l			
Disodium phosphate	75.45	Tween 20	20
Sodium thiosulphate	7.8	Tween 80	30
Lecithin	3	Distilled water	950
L-Histidine HCL	1		

Part no.	Designation	Units/box	€/box
693329	Universal neutralizer ClearLine® - 100 ml bottle	10	NC -

MRS deMan,Rogosa, Sharpe pH 5.7 (Agar)

The pH 5.7 medium allows the enumeration of mesophilic lactic acid bacteria

- Storage: 2 - 8 °C (for dehydrated base and for ready-to-use media)
- Incubation: 35 °C for 3 days or 30 °C for 5 days in a CO₂enriched atmosphere

Ready-to-use media

Part no.	Designation	Cond.	€
693372	100 ml bottle of MRS agar pH 5.7- ClearLine®	10	NC -

Mueller Hinton (Agar)

Reference medium for testing the sensitivity of germs to antibiotics and sulphonamides.

- Storage: 2 - 25 °C (for dehydrated base) and 2 - 8 °C (for ready-to-use media)
- Incubation: 35 ± 2 °C for 24 h

Ready-to-use media

Part no.	Designation	Cond.	€
693373	100 ml bottle of Mueller Hinton agar - ClearLine®	10	NC -

Neutralizer

The neutralizer mixture is added to the pre-enrichment medium whenever the presence of disinfectant solution is known or suspected. As a general rule, this mixture should be used at a rate of 10% of the final volume of the pre-enrichment medium.

- Storage: 15 - 25 °C in the dark

Formula in g/l			
Disodium phosphate	100.8	L-Histidine HCL	1
Sodium thiosulphate	7.8	Tween 80	30
Lecithin	3	Distilled water	857.4

Part no.	Designation	Units/box	€/box
693422	Neutralizer ClearLine® - 25 ml tube	100	NC -

MRS deMan,Rogosa, Sharpe (Agar)

For lactobacillus culture. The pH 5.4 medium allows the enumeration of *Lactobacillus bulgaricus* in yoghurt.

- Storage: 2 - 8 °C (for dehydrated base and for ready-to-use media)
- Incubation: 35 °C for 3 days or 30 °C for 5 days in a CO₂-enriched atmosphere

Ready-to-use media

Part no.	Designation	Cond.	€
693449	200 ml bottle of MRS agar - ClearLine®	6	NC -

Nutrient agar with sodium chloride ISO 21528

Medium recommended by ISO 21528 for the confirmation of Enterobacteriaceae.

- Storage: 2 - 25 °C (dehydrated base and ready-to-use medium)
- Incubation: 37 ± 1 °C for 24 ± 2 h

Ready-to-use media

Part no.	Designation	Cond.	€
693374	100 ml bottle of nutrient agar with sodium chloride - ClearLine®	10	NC -

O.G.A. (Oxytetracycline Glucose Agar) (O.G.Y.E.)

Recommended for the enumeration of yeasts and moulds in milk, dairy products and food.

- Storage: 2 - 25 °C (Dehydrated base and ready-to-use medium)
- Incubation: 20 - 25°C for 5 - 7 days

Ready-to-use media

Part no.	Designation	Cond.	€
693375	100 ml bottle O.G.A. agar (O.G.Y.E.) - ClearLine®	10	NC -

Peptone salt

Low peptone isotonic diluent used for dilutions in food analysis.

- Storage: 20 - 25 °C

Part no.	Designation	Cond.	€
693304	ClearLine® peptone salt - 9 ml tube	100	NC -
693424	ClearLine® peptone salt - 25 ml tube	100	NC -
693395	ClearLine® peptone salt - 45 ml bottle	10	NC -
693305	ClearLine® peptone salt - 90 ml bottle	10	NC -

PCA Plate count agar

For the investigation of total flora in food products.

- Storage: 8 - 15 °C
- Incubation: 30 °C for 72 h

Ready-to-use media

- Ceftazimide 10 mg
- Polymyxin B sulphate 5 mg
- Acryflavin 2.5 mg

Part no.	Designation	Cond.	€
693338	100 ml bottle - PCA agar - ClearLine®	10	NC -
693339	200 ml bottle - PCA agar - ClearLine®	6	NC -
693438	Sloped tube - PCA agar - ClearLine®	100	NC -

PCA skimmed milk

For the investigation of total flora in food products.

- Storage: 2 - 25 °C dehydrated base and for ready-to-use medium
- Incubation:
 - In compliance with ISO 11133: 30 ± 1°C for 72 h ± 3 h
 - according to APHA: 32 ± 2 °C for 18 - 48 h

Ready-to-use media

Part no.	Designation	Cond.	€
693376	100 ml bottle - PCA skimmed milk gelose - ClearLine®	10	NC -

PCA without glucose (Agar)

Used in water bacteriology for counting revivifiable micro-organisms.

- Storage: 2 - 25 °C dehydrated base and for ready-to-use medium
- Incubation:
 - For a series of boxes : 36 ± 2 °C for 44 h ± 4 h
 - For another series of boxes : 22 ± 2 °C for 68 ± 4 h

Ready-to-use media

Part no.	Designation	Cond.	€
693377	100 ml flask - PCA agar without glucose - ClearLine®	10	NC -

R2A (Agar)

For the heterotropic enumeration of bacteria in drinking water by the membrane filtration technique or agar plating.

- Storage: 2 - 25 °C dehydrated base and for ready-to-use medium
- Incubation:
 - According to the standard methods for water and wastewater: 20 - 28 °C for 5 - 7 days then 35 °C for 5 - 7 days
 - According to the pharmacopoeia: 30 - 35 °C for at least 5 days
 - For general use: 35 ± 2 °C for 24 - 72 h

Ready-to-use media

Part no.	Designation	Cond.	€
693379	100 ml bottle - R2A agar - ClearLine®	10	NC -

Rappaport Vassiliadis (RV - Broth)

For the selective enrichment of salmonella in foodstuffs.

- Storage: 2 - 25 °C (for dehydrated base) and 2 - 8 °C (for ready-to-use media)
- Incubation: 30 - 35 °C for 18 - 24 h

Ready-to-use media

Part no.	Designation	Cond.	€
693414	10 ml tube - Rappaport Vassiliadis broth - ClearLine®	100	NC -
693380	100 ml bottle - Rappaport Vassiliadis broth - ClearLine®	10	NC -

Rappaport Vassiliadis Soja (RVS - Broth)

For the selective enrichment of salmonella in foodstuffs or pharmaceutical products.

- Storage: 2 - 25 °C (for dehydrated base) and 2 - 8 °C (for ready-to-use media)
- Incubation: 41.5 ± 1 °C for 24 ± 3 h

Ready-to-use media

Part no.	Designation	Cond.	€
693415	10 ml tube - Rappaport Vassiliadis soy broth - ClearLine®	100	NC -

Sabouraud + chloramphenicol + cycloheximide (Agar)

Allows the growth and isolation of a wide variety of yeasts and moulds. Chloramphenicol inhibits the growth of bacteria. Cycloheximide inhibits the growth of saprophytic fungi but has no effect on pathogenic fungi.

- Storage: 2 - 25°C (dehydrated base) - 2 - 8°C (ready-to-use medium)
- Incubation: 30 °C for 2-5 days

Ready-to-use media

Part no.	Designation	Cond.	€
693440	Glucosed sabouraud slant agar tube + chloramphenicol + cycloheximide - ClearLine®	100	NC -
693332	200 ml bottle glucosed sabouraud agar + chloramphenicol + cycloheximide - ClearLine®	6	NC -

Glucose-rich sabouraud (Broth)

For the growth of a wide variety of yeasts and moulds.

- Storage: 2 - 25 °C (dehydrated base and ready-to-use medium)
- Incubation: 20 - 25 °C for 2 to 5 days

Ready-to-use media

Part no.	Designation	Cond.	€
693416	10 ml tube of sabouraud glucosed broth - ClearLine®	100	NC -
693381	100 ml bottle of sabouraud glucosed broth - ClearLine®	10	NC -

Sabouraud glucose (Agar)

For the growth and isolation of a wide variety of yeasts and moulds.

- Storage: 2 - 25 °C (dehydrated base and ready-to-use medium)
- Incubation: 20 - 25 °C for 2 to 5 days

Ready-to-use media

Part no.	Designation	Cond.	€
693382	100 ml bottle of sabouraud glucose agar - ClearLine®	10	NC -
693450	200 ml bottle of sabouraud glucose agar - ClearLine®	6	NC -

Sabouraud + chloramphenicol (Agar)

For the growth and isolation of a wide variety of yeasts and moulds.

- Storage: 2 - 25 °C (dehydrated base and ready-to-use medium)
- Incubation: 20 - 25 °C for 2 to 5 days

Ready-to-use media

Part no.	Designation	Cond.	€
693439	Glucose + chloramphenicol slant agar tube - ClearLine®	100	NC -
693383	100 ml bottle of glucosed sabouraud's agar + chloramphenicol - ClearLine®	10	NC -
693451	200 ml bottle of glucosed sabouraud's agar + chloramphenicol - ClearLine®	6	NC -

S.S. (Salmonella Shigella - Agar)



Salmonella typhimurium

For the selection and isolation of Salmonella and Shigella.

- Storage: 2 - 25 °C (dehydrated base and ready-to-use medium)
- Incubation: 35 ± 2 °C for 18 - 24 h

Ready-to-use media

Part no.	Designation	Cond.	€
693385	100 ml bottle of S.S. agar - ClearLine®	100	NC -

Selenite cystine (Broth)

For the selective enrichment of Salmonella in water or foodstuffs.

- Storage: 2 - 8 °C
- Incubation: 35 ± 2 °C for 18 - 24 h

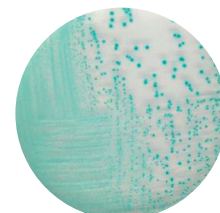
Ready-to-use media

Part no.	Designation	Cond.	€
693417	10 ml tube of Selenite Cystine agar - ClearLine®	100	NC -
693386	100 ml bottle of Selenite Cystine agar - ClearLine®	10	NC -

T.B.X. (Tryptone Bile x-Glucuronide - Chromogenic agar)

For the detection and enumeration of Escherichia coli in food.

- Storage: 2 - 25 °C (dehydrated base) and 2 - 8 °C in the absence of light (ready-to-use medium)
- Incubation: 44 ± 1 °C for 21 ± 3 h



Escherichia coli

Ready-to-use media

Part no.	Designation	Cond.	€
693388	100 ml bottle of TBX agar - ClearLine®	10	NC -
693452	200 ml bottle of TBX agar - ClearLine®	6	NC -

Thioglycolate with resazurin (Broth)

Used to detect the presence of viable aerobic, microaerobic, and anaerobic microorganisms in normally sterile products.

- Storage: 2 - 25 °C (dehydrated base and ready-to-use medium)
- Incubation: 30 - 35 °C for 3 days

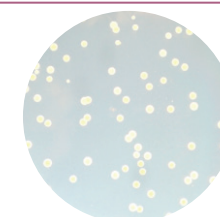
Ready-to-use media

Part no.	Designation	Cond.	€
693418	10 ml tube of thioglycolate broth with resazurin - ClearLine®	100	NC -
693389	100 ml bottle of thioglycolate broth with resazurin - ClearLine®	10	NC -

T.S.A. (Trypticasein Soy Agar) (Agar)

A general-purpose medium for the growth and isolation of a wide variety of microorganisms. It can be supplemented with 5-7% sans to determine haemolytic reactions.

- Storage: 2 - 25°C (dehydrated base) and 2 - 8°C (ready-to-use medium)
- Incubation: 35 ± 2 °C for 18 - 24 h



Ready-to-use media

Part no.	Designation	Cond.	€
693390	100 ml bottle Trypticase soja (TSA) agar - ClearLine®	10	NC -
693455	200 ml bottle Trypticase soja (TSA) agar - ClearLine®	6	NC -

TAT (Broth)

For the detection of bacterial contamination. Soy lecithin and Tween® 20 neutralise the preservatives.

- Storage: 2 - 8 °C
- Incubation: 35 ± 2 °C for 18 - 48 h

Part no.	Designation	Cond.	€
693403	90 ml bottle of TAT broth + Tween20® - ClearLine®	10	NC -

T.S.B. (Trypticasein Soy Broth)

A general purpose medium, allowing the growth of a wide variety of micro-organisms. It is recommended by the European and American pharmacopoeia.

- Storage: 2 - 25 °C (dehydrated base and ready-to-use medium)
- Incubation: 30 ± 1 °C for 48 ± 4 h

Ready-to-use media

Part no.	Designation	Cond.	€
693419	10 ml tube Tryptic soy broth (TSB) - ClearLine®	100	NC -
693404	100 ml bottle of Tryptone soja broth (Tryptic soy broth - TSB) - ClearLine®	10	NC -
693454	200 ml bottle of Tryptone soja broth (Tryptic soy broth - TSB) - ClearLine®	6	NC -

T.S.N. (Tryptone sulfite with neomycin)

Recommended for the detection and enumeration of Clostridium perfringens and sulphite reducing anaerobes in certain foods.

- Storage: 2 - 25°C (dehydrated base) - 2 - 8°C (ready-to-use medium)
- Incubation: 48 ± 1 °C for 18 - 24 h

Ready-to-use media

Part no.	Designation	Cond.	€
693420	20 ml tube of T.S.N. agar - ClearLine®	100	NC -

Liver meat (Agar)

Recommended for the detection and enumeration of sulphite-reducing clostridium spores in food products.

- Storage: 2 - 8 °C
- Incubation: 37 °C for 24 - 48 h

Part no.	Designation	Cond.	€
693421	20 ml tube of complete Meat Liver agar - ClearLine®	6	NC -
693392	100 ml bottle of complete Meat Liver agar - ClearLine®	10	NC -

V.R.B.G. (Violet Red Bile Glucose)

VRBG agar is recommended for the detection and enumeration of Enterobacteriaceae in foods.

- Storage: 2 - 25 °C (dehydrated base) 2 - 25 °C in the dark (ready-to-use medium)
- Incubation: 30 - 35 °C for 18 - 24 h

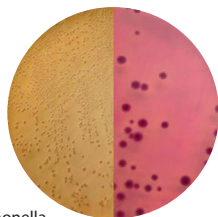
Ready-to-use media

Part no.	Designation	Cond.	€
693393	100 ml bottle of V.R.B.G. agar - ClearLine®	10	NC -
853077B	V.R.B.G. contact box	20	NC -

V.R.B.L. (Violet Red Bile Lactose)

VRBL agar is recommended for the detection of coliforms in food and dairy products.

- Storage: 2 - 25 °C (dehydrated base) 2 - 25 °C in the dark (ready-to-use medium)
- Incubation: 30 - 35 °C for 18 - 24 h

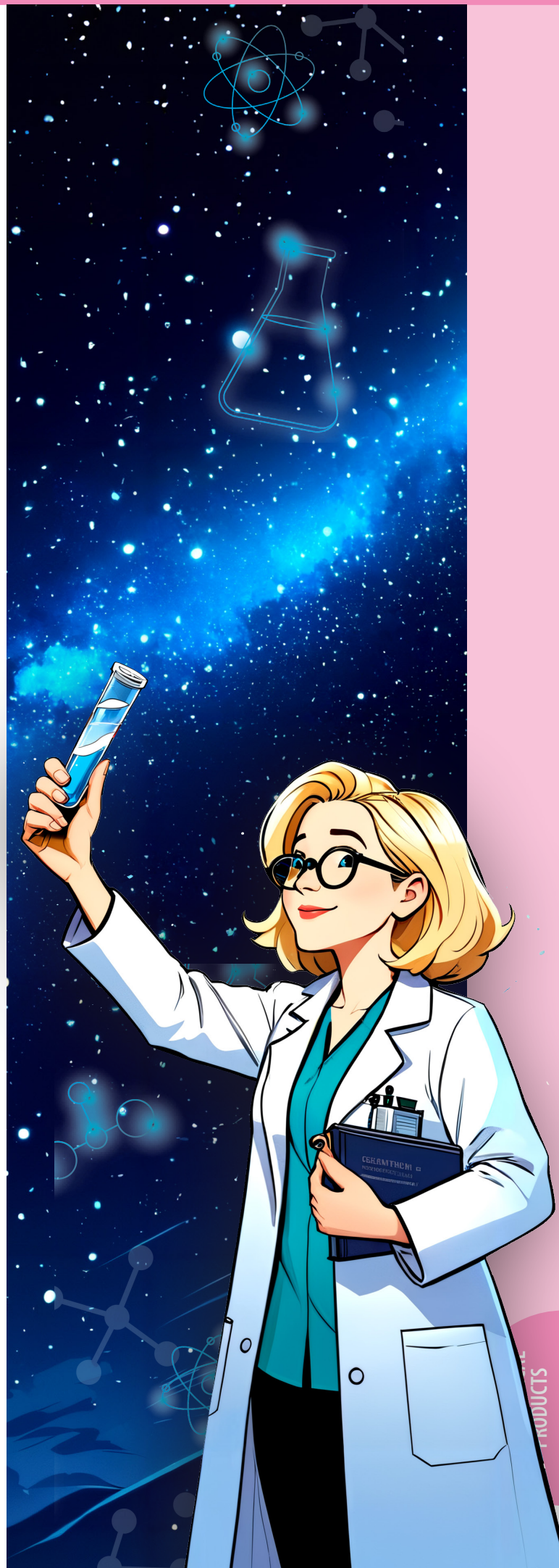


Salmonella gallinarum

Escherichia coli

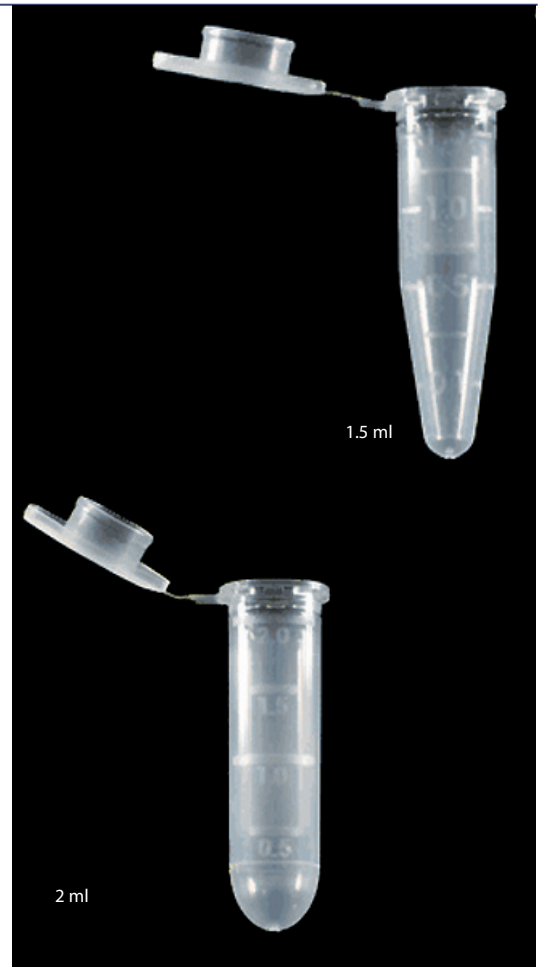
Ready-to-use media

Part no.	Designation	Cond.	€
693394	100 ml bottle of V.R.B.L. agar - ClearLine®	10	NC -
853074B	V.R.B.L. contact box	20	NC -



ClearLine® standard microtubes

Volume (ml)	1.5		2	
Diameter (mm)	10.8	10.8	10.8	10.8
Height (mm)	41	41	42	42
Material	Virgin polypropylene			
Sterile	No			
Cap type	Pierceable snap			
Autoclavable	Yes			
Max centrifugal speed (g)	25000			
Scale	Yes			
Marking area	Yes on tube and cap			
Operating temperature	-80 °C to +121 °C			
Specifications	Free of DNases, RNases, human DNA, endotoxins, ATP and PCR inhibitors; CE IVD marked			
Units/box	2 resealable bags of 500 Microtubes	1000 tubes	2 resealable bags of 500 Microtubes	1000 tubes
Cat. No. natural	390689	390690	390691	390692
€/box	NC -	NC -	NC -	NC -



ClearLine® Clear-Lock microtubes



Volume (ml)	0.5				1.5				2			
Diameter (mm)	7.8	7.8	7.8	7.8	10.66	10.66	10.66	10.66	10.73	10.73	10.73	10.73
Height (mm)	30	30	30	30	38	38	38	38	40.1	40.1	40.1	40.1
Material	Virgin polypropylene											
Sterile	No	No	Yes	Yes	No	No	Yes	Yes	No	No	Yes	Yes
Cap type	Snap Clear-Lock; pierceable											
Autoclavable	Yes											
Max centrifugal speed (g)	30000											
Scale	Yes											
Marking area	Yes on tube and cap											
Operating temperature	-80 °C to +121 °C											
Specifications	Free from DNases, RNases, human DNA, endotoxins, ATP and PCR inhibitors; CE IVD mark; secure locking system to prevent accidental opening											
Units/box	Bag with 500 microtubes	Box of 500 microtubes	50 microtubes individually wrapped	5 bags of 100 microtubes	Bag with 1000 microtubes	2 boxes of 500 microtubes	100 microtubes individually wrapped	4 bags of 50 microtubes	Bag with 1000 microtubes	2 boxes of 500 microtubes	100 microtubes individually wrapped	4 bags of 50 microtubes
Part no. natural colour	390931A	390929	395018	395019	390903	390901	390940	395020	390904	390902	390941	395021
€/box	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -

ClearLock™ Low Binding ClearLine® Microtubes



TUBES AND RACKS



Low Binding Proteins

Maximum protein recovery rate

Volume (ml)	0.5	1.5	2
Diameter (mm)	7.8	10.66	10.73
Height (mm)	30	38	40.1
Material	Medical grade polypropylene		
Sterile	No		
Cap type	Snap ClearLock™; pierceable		
Autoclavable	Autoclavable at +121°C for 20 minutes		
Max centrifugal speed (g)	30000		
Scale	Yes		
Marking area	Yes on tube and cap		
Operating temperatures	- 80 °C to + 100 °C		
Specifications	Material guaranteeing maximum DNA recovery; free of DNases, RNases, human DNA, endotoxins, ATP and PCR inhibitors, non-cytotoxic; secure locking system to prevent accidental opening		
Units/box	5 bags of 100 microtubes	4 bags of 50 microtubes	4 bags of 50 microtubes
Natural Cat. No.	390886	390888	390890
€/box	NC -	NC -	NC -

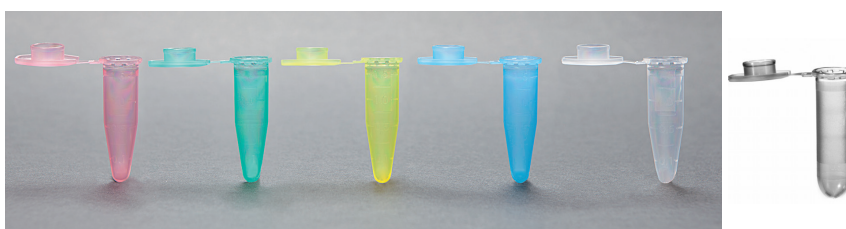
DNA Low Binding

Maximum DNA recovery rate

Volume (ml)	0.5	1.5	2
Diameter (mm)	7.8	10.66	10.73
Height (mm)	30	38	40.1
Material	Medical grade polypropylene		
Sterile	No		
Cap type	Snap ClearLock™; pierceable		
Autoclavable	Autoclavable at +121°C for 20 minutes		
Max centrifugal speed (g)	30000		
Scale	Yes		
Marking area	Yes on tube and cap		
Operating temperatures	- 80 °C to + 100 °C		
Specifications	Material for maximum protein recovery; free of DNases, RNases, human DNA, endotoxins, ATP and PCR inhibitors, non-cytotoxic; secure locking system to prevent accidental opening.		
Units/box	5 bags of 100 microtubes	4 bags of 50 microtubes	4 bags of 50 microtubes
Natural Cat. No.	390885	390887	390889
€/box	NC -	NC -	NC -

Prices are indicative and excluding tax. Visit Dutscher.com

Biosigma microtubes



Volume (ml)	1.5			2
Diameter (mm)	10.8	10.8	10.8	10.8
Height (mm)	41	41	41	41
Material	Polypropylene			
Sterile	No			
Cap	Yes	Yes	No	Yes
Cap type	Pierceable snap	Pierceable snap	-	Pierceable snap
Autoclavable	Yes			
Max centrifugal speed (g)	25000			
Scale	Yes			
Marking area	Yes on tube and cap			
Operating temperatures	-80 °C to +121 °C			
Specifications	CE IVD Mark			
Units/box	Resealable bag with 500 microtubes	Resealable bag with 1000 microtubes		
Cat. No. single tube natural	-	-	390526	-
Natural	390525	-	-	390524
Yellow	-	390536	-	-
Green	-	390538	-	-
Blue	-	390535	-	-
Pink	-	390537	-	-
€/box	NC -	NC -	NC -	NC -

ClearLine® Clear-Lock 5 ml tubes



Volume (ml)	5		
Diameter (mm)	16.6		
Height (mm)	56.5		
Material	Virgin polypropylene		
Sterile	No	No	Yes
Cap type	Snap Clear-Lock; pierceable		
Autoclavable	Yes		
Max. centrifugal speed (g)	21000		
Scale	Yes		
Marking area	Yes on tube and cap		
Operating temperatures	-80 °C to +121 °C		
Specifications	Free of DNases, RNases, human DNA, endotoxins, ATP and PCR inhibitors; CE IVD marking; secure locking system to prevent accidental opening		
Units/box	Bag of 500 tubes	2 Boxes of 100 tubes	50 individually wrapped tubes
Natural	390932A	390930A	395022
€/box	NC -	NC -	NC -

ClearLine® seamless screw cap microtubes



	Standard					
Volume (ml)	0.5	1.5	2	0.5	1.5	2
Out diameter (mm)	10.20	10.20	10.20	10.20	10.20	10.20
Inner diameter (mm)	8.5	8.5	8.5	8.5	8.5	8.5
Height (mm)	46.2	46.2	46.5	47.5	47	47.8
Material	Virgin polypropylene; medical grade					
Sterile	Yes					
Autoclavable	Yes					
Max centrifugal speed (g)	25000					
Skirt	No	No	No	Yes	Yes	Yes
Graduation	No	Yes	Yes	No	Yes	Yes
Marking area	No	Yes	Yes	No	Yes	Yes
Operating temperatures	-85 °C to +121 °C					
Specifications	USP Class VI compliant; DNase, RNase and endotoxin free; CE IVD mark					
Units/box	2 bags of 500 microtubes					
Cat. No. natural	390627CL	390634CL	390646CL	390632CL	390640CL	390652CL
€/box	NC -	NC -	NC -	NC -	NC -	NC -



	For insert					
Volume (ml)	0.5	1.5	2	0.5	1.5	2
Out diameter (mm)	10.20					
Inner diameter (mm)	8.5					
Height (mm)	48.8	48.2	48.4	49.2	49	49.8
Material	Virgin polypropylene; medical grade					
Sterile	Yes					
Autoclavable	Yes					
Max centrifugal speed (g)	25000					
Skirt	No	No	No	Yes	Yes	Yes
Graduation	No	Yes	Yes	No	Yes	Yes
Marking area	No	Yes	Yes	No	Yes	Yes
Operating temperatures	-85 °C to +121 °C					
Specifications	USP Class VI compliant; DNase, RNase and endotoxin free; CE IVD mark					
Units/box	2 bags of 500 microtubes					
Cat. No. natural	390629CL	390636CL	390648CL	390829CL	390642CL	390654CL
€/box	NC -	NC -	NC -	NC -	NC -	NC -



	For insert with clip					
Volume (ml)	0.5	1.5	2	0.5	1.5	2
Out diameter (mm)	10.20					
Inner diameter (mm)	8.5					
Height (mm)	48.8	48.2	48.4	49.2	49	49.8
Material	Virgin polypropylene; medical grade					
Sterile	Yes					
Autoclavable	Yes					
Max centrifugal speed (g)	25000					
Skirt	No	No	No	Yes	Yes	Yes
Graduation	No	Yes	Yes	No	Yes	Yes
Marking area	No	Yes	Yes	No	Yes	Yes
Operating temperatures	-85 °C to +121 °C					
Specifications	USP Class VI compliant; DNase, RNase and endotoxin free; CE IVD mark					
Units/box	2 bags of 500 microtubes					
Cat. No. natural	390631CL	390638CL	390650CL	390830CL	390644CL	390656CL
€/box	NC -	NC -	NC -	NC -	NC -	NC -

Prices are indicative and excluding tax. Visit Dutscher.com

All ClearLine® microtubes are available with coloured screw caps.

Screw cap microtubes with ClearLine® seal



	Standard					
Volume (ml)	0.5	1.5	2	0.5	1.5	2
Out diameter (mm)	10.20					
Inner diameter (mm)	8.5					
Height (mm)	46.2	46.2	46.2	47.5	47	47.8
Material	Virgin polypropylene; medical grade					
Sterile	Yes					
Autoclavable	Yes					
Max centrifugal speed (g)	25000					
Skirt	No	No	No	Yes	Yes	Yes
Graduation	No	Yes	Yes	No	Yes	Yes
Marking area	No	Yes	Yes	No	Yes	Yes
Operating temperatures	-85 °C to +121 °C					
Specifications	USP Class VI compliant; DNase, RNase and endotoxin free; CE IVD mark					
Units/box	2 bags of 500 microtubes					
Cat. No. natural	390418CL	390420CL	390422CL	390419CL	390421CL	390423CL
€/box	NC -	NC -	NC -	NC -	NC -	NC -



	For insert					
Volume (ml)	0.5	1.5	2	0.5	1.5	2
Out diameter (mm)	10.20					
Inner diameter (mm)	8.5					
Height (mm)	48.8	48.2	48.4	49.2	49	49.8
Material	Virgin polypropylene; medical grade					
Sterile	Yes					
Autoclavable	Yes					
Max centrifugal speed (g)	25000					
Skirt	No	No	No	Yes	Yes	Yes
Graduation	No	Yes	Yes	No	Yes	Yes
Marking area	No	Yes	Yes	No	Yes	Yes
Operating temperatures	-85 °C to +121 °C					
Specifications	USP Class VI compliant; DNase, RNase and endotoxin free; CE IVD mark					
Units/box	2 bags of 500 microtubes					
Cat. No. natural	390424CL	390426CL	390428CL	390425CL	390427CL	390429CL
€/box	NC -	NC -	NC -	NC -	NC -	NC -



	For insert with clip					
Volume (ml)	0.5	1.5	2	0.5	1.5	2
Out diameter (mm)	10.20					
Inner diameter (mm)	8.5					
Height (mm)	48.8	48.2	48.4	49.2	49	49.8
Material	Virgin polypropylene; medical grade					
Sterile	Yes					
Autoclavable	Yes					
Max centrifugal speed (g)	25000					
Skirt	No	No	No	Yes	Yes	Yes
Graduation	No	Yes	Yes	No	Yes	Yes
Marking area	No	Yes	Yes	No	Yes	Yes
Operating temperatures	-85 °C to +121 °C					
Specifications	USP Class VI compliant; DNase, RNase and endotoxin free; CE IVD mark					
Units/box	2 bags of 500 microtubes					
Cat. No. natural	390430CL	390432CL	390434CL	390431CL	390433CL	390435CL
€/box	NC -	NC -	NC -	NC -	NC -	NC -

Microtubes without caps

Volume (ml)	0.5		1.5		2	
Out diameter (mm)	10.20					
Inner diameter (mm)	8.5					
Height (mm)	45.2	46.1	45.2	46.1	45.4	46.8
Material	Virgin polypropylene; medical grade					
Sterile	No					
Cap	No					
Autoclavable	Yes					
Max centrifugal speed (g)	25000					
Skirt	No	Yes	No	Yes	No	Yes
Graduation	Yes	Yes	No	No	Yes	Yes
Marking area	Yes	Yes	No	No	Yes	Yes
Operating temperatures	-85 °C to +121 °C					
Specifications	USP Class VI compliant; DNase, RNase and endotoxin free; CE IVD mark					
Units/box	1000 microtubes					
Cat. No. natural	390436CL	390437CL	390438CL	390439CL	390440CL	390441CL
€/box	NC -	NC -	NC -	NC -	NC -	NC -

Cap



	Without seal		With seal	
	Standard	For insert	For insert with clip	Standard
Material	Virgin Polyethylene; medical grade			
Specifications	Free of DNase, RNase and endotoxin; CE IVD marking			
Units/box	1000 caps	500 caps	1000 caps	1000 caps
Natural	390442CL	-	390443CL	390444CL
White	-	390748CL	-	-
Yellow	-	390749CL	-	-
Red	-	390751CL	-	-
Green	-	390752CL	-	-
Blue	-	390747CL	-	-
€/box	NC -	NC -	NC -	NC -

Coloured inserts for Cap-Disks

- To diversify and organise your microtubes as you wish
- Coloured inserts to be placed in dedicated ClearLine® screw caps

Colour	Sky Blue	White	Yellow	Pink	Red	Green	Combined*
Part no.	390448	390449	390450	390451	390452	390453	390454
€ for 1000	NC -	NC -	NC -	NC -	NC -	NC -	NC -

* All colours except white.



Biosigma polystyrene tubes



Volume (ml)	5		
Diameter (mm)	13		
Height (mm)	75		
Material	Polystyrene		
Sterile	No	No	Yes
Bottom	Round		
Cap	No	Yes	Yes
Autoclavable	No		
Skirt	No		
Graduation	No		
Marking area	No		
Colour	Transparent		
Units/box	Bag of 4200 tubes	Bag of 2100 tubes	21 bags of 100 tubes
Cat. No. tube only	390559	-	-
Cat. No. yellow cap	-	390490	390560
€/box	NC -	NC -	NC -

Cap

Part no.	Designation	Units/box	€/ box
390558	Yellow cap	1000	NC -

Polypropylene Tubes, straight neck

Round bottom
Without cap



Volume (ml)	5	
Ø ext. (mm)	12.8	13
inn. Ø (mm)	10.9	11
Height without cap (mm)	75	75
Material	Polypropylene	
Sterile	No	
Bottom	Round	
Type of neck	Straight	Straight
Autoclavable	No	No
Skirt	No	
Graduation	No	No
Marking area	No	
Colour	Translucent	
Units/box	Bag of 2000 tubes	4 bags of 1000 tubes
Cat. No. tube only	080071	388589
€/box	NC -	NC -

Biosigma Polystyrene tubes, straight neck



Volume (ml)	3	5
Out diameter (mm)	11.5	12
Inner diameter (mm)		10.7
Height (mm)	55	86
Material	Polystyrene	
Sterile	No	
Bottom	Round	
Cap	Without	
Autoclavable	No	
Skirt	No	
Graduation	Yes	
Marking area	No	
Colour	Transparent	
Operating temperature	-10 °C to +50 °C	
Units/box	6000 tubes	4000 tubes
Tube only	390595	395035
€/box	NC -	NC -

Polypropylene tubes, straight neck with round bottoms without cap

Round bottom
Without cap



Volume (ml)	10
Ø ext. (mm)	16
inn. Ø (mm)	14
Height without cap (mm)	100
Material	Polypropylene
Sterile	No
Bottom	Round
Type of neck	Straight
Autoclavable	No
Max centrifugal speed (g)	-
Skirt	No
Graduation	Yes
Marking area	No
Colour	Translucent
Units/box	Bag of 2000 tubes
Cat. No. tube only	390678
€/box	NC -

Polystyrene tubes, straight neck with round bottom without cap

Round bottom
Without cap



Volume (ml)	5		
Ø ext. (mm)	12	12.8	13
inn. Ø (mm)	10	10.9	11
Height without cap (mm)	74.5	75	75
Material	Polystyrene		
Sterile	No		
Bottom	Round		
Type of neck	Straight	Straight	Straight
Autoclavable	No		
Skirt	No		
Graduation	No	No	No
Marking area	No		
Colour	Transparent		
Operating temperature	+20 °C to +90 °C		
Units/box	4 bags of 1000 tubes	5 bags of 500 tubes	4 bags of 1000 tubes
Cat. No. tube only	390597	080053	390588
€/box	NC -	NC -	NC -

Polystyrene tubes, straight neck with round bottom without cap

Round bottom
Without cap



Volume (ml)	10
Ø ext. (mm)	16
inn. Ø (mm)	14
Height without cap (mm)	100
Material	Polystyrene
Sterile	No
Bottom	Round
Type of neck	Straight
Autoclavable	No
Skirt	No
Graduation	Yes
Marking area	No
Colour	Transparent
Operating temperature	+20 °C to +90 °C
Units/box	4 bags of 500 tubes
Cat. No. tube only	390679
€/box	NC -

Prices are indicative and excluding tax. Visit Dutscher.com



Tiered racks for microtubes

ClearLine®



- Made of polypropylene
- Red, blue or green
- Tiered model
- For 12 microtubes of 0.2 ml, 14 microtubes of 0.5 ml and 17 microtubes of 1.5 ml
- 5 additional slots for 1.5/2 ml microtubes with locking system
- Autoclavable at 121°C

Red	Blue	Green	€
020452	020453	020454	NC -

Drosophila tubes

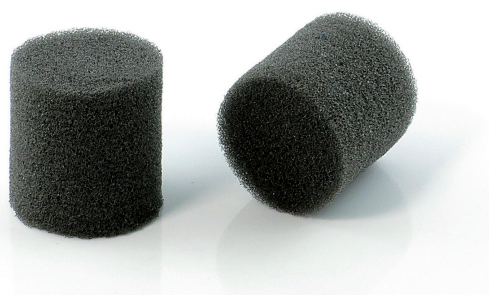


- 3 resins:
 - Transparent PS: non-autoclavable
 - K resin: ideal for transport, very strong, virtually unbreakable, non-autoclavable
 - PP: translucent and autoclavable
- 2 Tubes formats:
 - thin: 25 x 95 mm
 - wide: 28.5 x 95 mm
- Supplied in trays of 100, arranged 10 x 10 (5 x 100 tubes per box) or in bulk

Material	ø x h (mm)	In bulk			On a tray of 100		
		Part no.	Units/box	€/ box	Part no.	Units/box	€/ box
PS	25 x 95	789008	500	NC -	789001B	500	NC -
PS	28.5 x 95	789009	500	NC -	789002	500	NC -
PP	25 x 95	-	-	-	789001PP	500	NC -
PP	28.5 x 95	-	-	-	789002PP	500	NC -

Grey foam plugs ClearLine®

ClearLine®



- In polyether foam P2560
- Reusable
- Smooth surface for marking with a felt-tip pen
- Density 25 kg/m³
- Support 6.3 kPa

Part no.	Diameter (mm)	Height (mm)	Units/box	€/ box
999046CL	50	50	100	NC -
999047CL	40	40	100	NC -
999048CL	26	30	100	NC -

Attention No cryotube is intended to be immersed directly in the liquid phase of liquid nitrogen, but only for storage in the gas phase of nitrogen.

If liquid nitrogen were to enter the tube, there would be a risk of explosion due to the pressure generated by the passage of nitrogen from the liquid phase to the gaseous phase when the tubes are removed and/or thawed.

ClearLine® 1D barcode cryotubes



ClearLineQuality

- » Made of medical grade virgin polypropylene
- » Can be used down to - 196°C
- » ATP-free
- » USP Class VI (non-cytotoxic and non-haemolytic)
- » Sterilised by Beta rays, SAL 10-6



- Bi-injected screw cap, plastic and silicone: no risk of leakage and contamination - excellent grip for screwing and unscrewing the cryotube
- Star cap design on the top, for use with automatic cappers/decappers
- Printed graduations, with writing area
- Supplied with a pre-printed random barcode
- Bottom to lock into polycarbonate racks (skirted bottom tubes only)
- Autoclavable (open) with steam at 121°C for 20 minutes.

Cryotubes with external thread



Volume (ml)	Skirt	Cryotubes with natural cap	€ 50 units
1	Yes	390700	NC -
2	Yes	390701	NC -
2	No	390702	NC -
3	Yes	390703	NC -
4	Yes	390704	NC -
5	Yes	390705	NC -

Cryotubes with internal thread



Volume (ml)	Skirt	Cryotubes with natural cap	€ per 50
1	Yes	390706	NC -
2	Yes	390708	NC -
2	No	390707	NC -
4	Yes	390710	NC -
4	No	390709	NC -
5	Yes	390712	NC -
5	No	390711	NC -

Warning: ClearLine® cryotubes are not intended to be immersed in the liquid phase of liquid nitrogen, but to be stored in its gaseous phase. There is a risk of the cryotube exploding if liquid nitrogen enters the tube during immersion.

Coloured dots for caps

Blue	White	Yellow	Purple	Red	Green	€ 100 units	Assorted	€ per 6 x 100
390741A	390742A	390743A	390789A	390745A	390746A	NC -	390802A	NC -

Retrieval rods

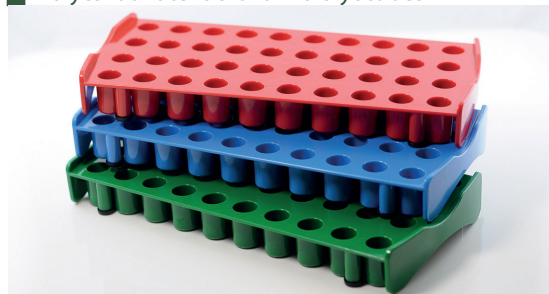


Part no.	Designation	Units/box	€/ box
390784	Cryo picker rod	100	NC -
390784AA	Cryo picker rod	1	NC -
390784A	Cryo picker rod	10	NC -



Tip
ClearLine® cryotubes with 2D barcode page 525
ClearLine® cryoboxes page 525

Polycarbonate racks for 40 cryotubes

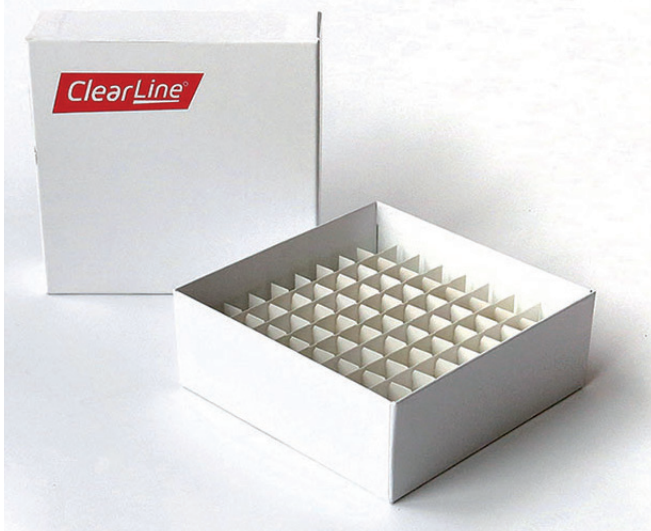


- Autoclavable
- L x W x H: 215 x 100 x 25 mm
- Bottom allowing the tube to be locked in the rack

Blue	Red	Green	€
390494	390495	390496	NC -

ClearLine® white cardboard cryoboxes

ClearLine



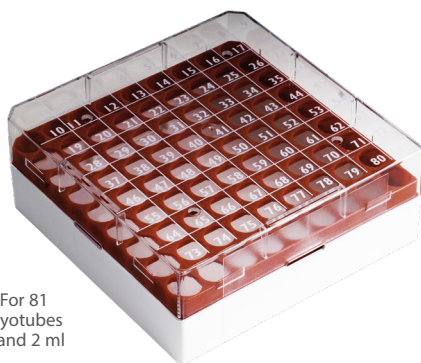
- In Hydrophobic cardboard
- With or without dividers mounted in the box
- Min. temperature: -196 °C

Capacity	Dim. (mm)	Divider	Part no.	€	Dim. (mm)	Cat. No.	€
-	133 x 133 x 51	No	972014	NC -	133 x 133 x 75	972017	NC -
81 cryotubes	133 x 133 x 51	Yes	972015	NC -	133 x 133 x 75	972018	NC -
100 microtubes	133 x 133 x 51	Yes	972016	NC -	133 x 133 x 75	972019	NC -

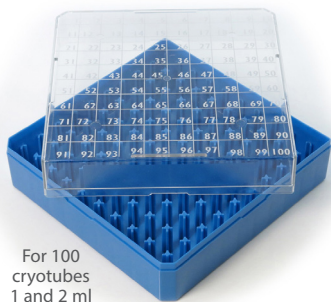
CRYOGENICS

CryoGen® Box polycarbonate cryoboxes

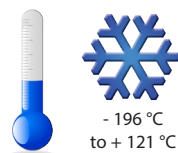
ClearLine



For 81 cryotubes
1 and 2 ml



For 100 cryotubes
1 and 2 ml



- 196 °C
to + 121 °C

CryoGen® Box

CryoGen® Box: to store your cryotubes. Digital marking printed on the lid.

- + Frosted marking area (box and lid)
- + Bottom with pimples, without grid, on 100-seater boxes

CryoGen® Box: to store your cryotubes. Laser-engraved digital marking on the lid.

- + Frosted marking area (box and lid)

ClearLine® Polycarbonate boxes for cryotubes storage

- Polycarbonate box, grid and lid
- Transparent lid, digitally marked for each slot, with cut corners
- For all volumes of ClearLine® cryotubes: 25 and 81 places: coloured grid, white bottom/ to accommodate 100 tubes: white bottom with pins
- Can be used from - 196 °C to + 121 °C, autoclavables 20 min

For	25 cryotubes 1 and 2 ml	81 cryotubes 1 and 2 ml	81 cryotubes 3, 4 and 5 ml*	100 cryotubes** 1 and 2 ml
Dim. (mm)	76 x 76 x 52	132 x 132 x 52	132 x 132 x 94	132 x 132 x 52
Blue	390476	390479	390482	390491
Yellow	390699	390697	390698	390489
Red	390477	390480	390483	390492
Green	390478	390481	390484	390493
White	-	-	-	390788
€	NC -	NC -	NC -	NC -
Blue	-	390733	390737	-
Yellow	-	390736	390740	-
Red	-	390734	390738	-
Green	-	390735	390739	-
€	-	NC -	NC -	-



Digital marking/
Cut corners



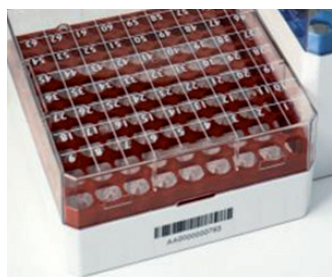
Frosted marking surface

CryoGen® Box with barcodes 1D and 2D ClearLine®

- CryoGen® Box 2D:
Standard barcode + 2D Datamatrix code
- + Standard barcode (code 128)
 - + Corresponding 2D Datamatrix code on the bottom of the box
 - + Openings (see photo)* in the back
 - + Locking of tubes (with skirt) in the base
 - + Designed for use with 2D scanners

- CryoGen® Box 1D:
standard barcodes
- + Standard barcode (code 128) on edge
 - + Bottom with pimples, without grid, on 100-seater boxes

For	25 cryotubes 1-2 ml	81 cryotubes 1-2 ml	81 cryotubes 3-4-5 ml	100 cryotubes 2D 2 ml	100 cryotubes 2D 5 ml
Dim. (mm)	76 x 76 x 52	132 x 132 x 52	132 x 132 x 94	132 x 132 x 52	132 x 132 x 94
Blue	-	390717	390721*	-	-
Yellow	-	390718	390722*	-	-
Red	-	390719	390723*	-	-
Green	-	390720	390724*	-	-
White bottom with pins	-	-	-	390820**	390821**
€	-	NC -	NC -	NC -	NC -
Blue	390804	390808	390812*	-	-
Yellow	390805	390809	390813*	-	-
Red	390806	390810	390814*	-	-
Green	390807	390811	390815*	-	-
White bottom with pins	-	-	-	390816**	-
€	NC -	NC -	NC -	NC -	-



Traceability & Identification

- Laser engraved barcode on the side
- 2D Datamatrix code on the background, corresponding to the barcode, standard

* The CryoGen® Box for 81 tubes 3 to 5 ml is not compatible with 4 ml cryotubes with internal screw cap.

** With internal screw cap only.

Transport bags and containers

Transport bags

- Transport and protection system for biological samples
- ADR compliant
- UN3373 compliant - for transport of B biological substances
- PVC-coated polystyrene 600/900 exterior
- PVC coated 210/210 nylon interior
- Semi-rigid structure
- Zip closure
- Inner pocket for cooling element, outer pocket for document
- Can be disinfected with standard disinfection solutions
- Sterilizable with aqueous solutions, cold sterilization
- Not autoclavable, washable at 40°C
- Blue
- English/German marking

Part no.	Suitable for	Dimensions (mm)	Internal pocket for	€
390971B	1 container 390975	280 x 180 x 210	1 cooling element	NC -
390972B	2 Containers 390975	320 x 300 x 220	2 cooling elements	NC -
390947B	3 Containers 390975	430 x 300 x 200	3 cooling elements	NC -
390948B	6 Containers 390975	420 x 300 x 380	4 cooling elements	NC -
390974B	1 container 390860	∅ 120 x 150	-	NC -



390971B

Carrying case for vacuettes

- Made of polypropylene
- Silicone seal
- Foam insert for 40 vacuettes
- Ensures the safe transport of vacuettes
- Absorbent polymer buffer
- Storage temperature -18°C to +50°C
- Complies with ADR/RID, IATA-DG, ICAO and IMDG Code

Part no.	Dimensions (mm)	€
390975	270 x 125 x 180	NC -



390974B

Carrying case for vacuettes

- Ensures the safe transport of vacuettes
- UN3373 compliant - for transport of B biological substances
- Made of polypropylene
- For tubes 13 x 75 mm, 13 x 100 mm, 16 x 100 mm
- Absorbent buffer
- Foam insert for 12 tubes
- Complies with ADR/RID, IATA-DG, ICAO and IMDG Code

Part no.	Dimensions ∅ x h (mm)	€
390860	113 x 130	NC -



390975

ClearLine® wide-neck washbowls

ClearLine



- In low density polyethylene
- One-piece moulded cap

Volume (ml)	250	500
White	257016	761880
Blue	257017	257023
Red	257018	257024
Yellow	257019	257025
Orange	257020	257026
Green	257021	257027
Units/box	1	1
€/box	NC -	NC -
Assorted	257022	257028
Units/box	6	6
€/box	NC -	NC -

ClearLine® polystyrene screw-top jars

ClearLine



- Disposable crystal polystyrene jars
- HDPE screw caps, white or red
- Available aseptic (white cap) or sterile irradiated by E-beam at 10 kGy (red cap)
- Traceability: labels with part no., barcode and batch number
- Operating temperature: -40 °C to +65 °C
- Suitable for food contact (CE n°1935/2004)

Nominal volume (ml)	Max. working volume (ml)	Ø x h (mm)	Material	Weight (g) with /without cap	Units/box	White aseptic cap	Red cap, sterile irradiated
160	155	58 x 69	PS	31,7 / 19	360	Part no. 076050	Part no. 076051
						€/box NC -	€/box NC -
220	205	58 x 95	PS	37,2 / 24,5	300	Part no. 076054	Part no. 076055
						€/box NC -	€/box NC -

ClearLine® polypropylene screw-top jars

ClearLine



- Single-use natural polypropylene jars
- HDPE screw caps, white or red
- Available aseptic (white cap) or sterile irradiated by E-beam at 10 kGy (red cap)
- Traceability: labels with part no., bar code and batch number
- Operating temperature: -40 °C to +85 °C
- Suitable for food contact (CE n°1935/2004)

Nominal volume (ml)	Useful volume max. (ml)	Ø x h (mm)	Material	Weight(g) with/without cap	Units/box	White Aseptic cap	Red cap, irradiated sterile
160	150	57 x 68	PP	25 / 16	360	Part no. 076052	Part no. 076053
						€/box NC -	€/box NC -
220	205	57 x 94	PP	30 / 21	300	Part no. 030306B	Part no. 030307B
						€/box NC -	€/box NC -

Urine Collection pot



- Made of transparent polypropylene
- Available as non-sterile or sterile in individual packaging
- Screw cap
- Volume: 30, 60 ml and 120 ml
- Frosted area for marking

Part no.	Volume (ml)	Cap colour	Sterile	Units/box	€/box
390977*	30	Red	No	700	NC -
390976*	30	Red	Yes, indiv. pack.	500	NC -
861083	60	White	No	600	NC -
861084	60	Red	Yes, indiv. pack.	500	NC -
861085	120	White	No	300	NC -
861086	120	Red	Yes, indiv. pack.	250	NC -



Sampling pots with spatula

- Made of polypropylene
- With marking surface
- Screw cap

Part no.	Volume (ml)	ø x H (mm)	Sterile	Unit of emb.	Units/box	€/box
390978	30	28 x 82.5	No	700	700	NC -
390979	30	28 x 82.5	Yes	1	500	NC -



Urine Collection pot, with yellow cap and suction system

- Made of transparent polypropylene
- Available as non-sterile or sterile in individual packaging
- Screw cap
- Volume: 30, 60 ml and 120 ml
- Frosted area for marking

Part no.	Volume (ml)	Cap colour	Sterile	Units/box	€/box
861087	120	Yellow	Yes, indiv. pack.	250	NC -
861088	120	Yellow	No, indiv. pack.	250	NC -
861089	120	Yellow	No, bulk	250	NC -
861090	120	Yellow	Yes, bulk	250	NC -



Joseph papers

ClearLine



- Lint-free and absorbent
- For cleaning and drying glass containers
- 25 g/m²

Part no.	L x W (mm)	Units/box	€/ box
257923	150 x 150	200	NC -
257926*	350 x 500	40	NC -
257922	350 x 500	500	NC -
257924	350 x 500	800	NC -
257925*	350 x 500	800	NC -

* Folded

General purpose filter paper

ClearLine



- 100% cellulose
- General use

Grade	Retention range (µm)	Grammage (g/m ²) DIN 53104	Thickness (mm)	Filtration speed (sec) DIN 53137
ST60	10-20	64	0.15	30
ST61	5-13	73	0.16	35
ST62	17-30	73	0.17	15
ST64	30-40	120	0.35	10

Flat filters

Ø (mm)	ST60		ST61		ST62		ST64	
	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100
47	257902	NC -	257939	NC -	-	-	-	-
55	257903	NC -	257940	NC -	257965	NC -	-	-
70	257904	NC -	257941	NC -	257966	NC -	-	-
90	257905	NC -	257943	NC -	257967	NC -	257985	NC -
100	257906	NC -	257944	NC -	-	-	-	-
110	257907	NC -	257945	NC -	257968	NC -	257986	NC -
125	257908	NC -	257946	NC -	257969	NC -	257987	NC -
130	257909	NC -	-	-	-	-	-	-
150	257910	NC -	257947	NC -	257970	NC -	257988	NC -
185	257911	NC -	257948	NC -	257971	NC -	257989	NC -
190	257912	NC -	-	-	-	-	-	-
240	257913	NC -	257949	NC -	257972	NC -	257990	NC -
250	257914	NC -	-	-	-	-	-	-
320	257915	NC -	257950	NC -	-	-	257991	NC -
330	257916	NC -	-	-	-	-	-	-
400	257917	NC -	257951	NC -	257974	NC -	-	-
500	257918	NC -	257952	NC -	-	-	257992	NC -

Pleated filters

Ø (mm)	ST60		ST61		ST62	
	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100
70	257927	NC -	257954	NC -	257975	NC -
100	257928	NC -	257955	NC -	257976	NC -
110	257929	NC -	257956	NC -	257977	NC -
130	257930	NC -	257957	NC -	257978	NC -
150	257931	NC -	257958	NC -	257979	NC -
190	257932	NC -	257959	NC -	257980	NC -
210	257933	NC -	257960	NC -	-	-
250	257934	NC -	257961	NC -	257981	NC -
330	257935	NC -	257962	NC -	257982	NC -
400	257936	NC -	257963	NC -	257983	NC -
500	257937	NC -	257964	NC -	257984	NC -

Qualitative analytical filter papers

ClearLine



- High purity cotton and cellulose fibre linters (0.06% ash content)
- To determine the nature of the filtered elements and their composition
- Highly resistant to chemicals and moisture

Grade	Retention range (µm)	Grammage (g/m ²) DIN 53104	Thickness (mm)	Filtration speed (sec) DIN 53137
QL02	12-15	88	0.18	20
QL03	8-12	87	0.18	50
QL04	4-7	80	0.16	100
QL05	2-4	80	0.16	200

Flat filters

Ø (mm)	QL02		QL03		QL04		QL05	
	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100
55	258011	NC -	258030	NC -	258052	NC -	258069	NC -
70	258012	NC -	258031	NC -	258053	NC -	258070	NC -
90	258013	NC -	258032	NC -	258054	NC -	258071	NC -
110	258014	NC -	258033	NC -	258055	NC -	258072	NC -
125	258015	NC -	258034	NC -	258056	NC -	258073	NC -
150	258016	NC -	258035	NC -	258057	NC -	258074	NC -
185	258017	NC -	258036	NC -	258058	NC -	258075	NC -
210	258018	NC -	-	-	-	-	-	-
240	258019	NC -	258037	NC -	258059	NC -	258076	NC -
320	258020	NC -	258038	NC -	-	-	-	-

Pleated filters

Ø (mm)	QL02		QL03		QL04		QL05	
	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100
70	258021	NC -	258040	NC -	258060	NC -	258077	NC -
90	258022	NC -	258041	NC -	258061	NC -	258078	NC -
110	258023	NC -	258042	NC -	258062	NC -	258079	NC -
125	258024	NC -	258043	NC -	258063	NC -	258080	NC -
150	258025	NC -	258044	NC -	258064	NC -	258081	NC -
185	258026	NC -	258045	NC -	258065	NC -	258082	NC -
240	258027	NC -	258046	NC -	258066	NC -	258083	NC -
320	258028	NC -	258048	NC -	258067	NC -	258084	NC -
385	-	-	258049	NC -	-	-	-	-

Quantitative analytical filter paper



Grade	Retention range (µm)	Grammage (g/m ²) DIN 53104	Thickness (mm)	Filtration speed (sec) DIN 53137
QT41	25-30	80	0.2	9
QT42	20-25	84	0.2	27
QT43	14-18	84	0.2	55
QT44	7-9	74	0.16	100
QT45	2-4	84	0.17	140

- 100% cotton linters
- Acid-treated and washed with demineralised water
- Ash content less than 0.01%



Flat filters

Ø (mm)	QT41		QT42		QT43		QT44		QT44	
	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100
47	258099	NC -	258108	NC -	258117	NC -	258127	NC -	258136	NC -
55	258100	NC -	258109	NC -	258118	NC -	258128	NC -	258137	NC -
70	258101	NC -	258110	NC -	258119	NC -	258129	NC -	258138	NC -
90	258102	NC -	258111	NC -	258120	NC -	258130	NC -	258139	NC -
110	258103	NC -	258112	NC -	258121	NC -	258131	NC -	258140	NC -
125	258104	NC -	258113	NC -	258122	NC -	258132	NC -	258141	NC -
150	258105	NC -	258114	NC -	258123	NC -	258133	NC -	258142	NC -
185	258106	NC -	258115	NC -	258124	NC -	258134	NC -	258143	NC -
210	-	-	-	-	258125	NC -	-	-	-	-
240	258107	NC -	258116	NC -	258126	NC -	258135	NC -	258144	NC -

Glass fibre paper without binder

Grade	Retention range (µm)	Grammage (g/m ²) DIN 53104	Thickness (mm)	Filtration speed (sec) DIN 53137
FV25	0.7	75	310	0.45
FV22	1	143	200	0.26
FV23	1.2	52	100	0.26
FV21	1.6	52	60	0.26
FV24	2.7	120	30	0.53

- 100% borosilicate glass without binder
- 5 filtration thresholds to meet every need
- For microfiltration of air, gases and liquids
- Heat-resistant up to 500°C
- Compatible with most chemical reagents



Grade	FV25			FV22			FV23			FV21			FV24		
	Part no. Threshold 0.7 µm	Units/ box	€/ box	Part no. Threshold 1 µm	Units/ box	€/ box	Part no. Threshold 1.2 µm	Units/ box	€/ box	Part no. Threshold 1.6 µm	Units/ box	€/ box	Part no. Threshold 2.7 µm	Units/ box	€/ box
21	257850	100	NC -	-	-	-	257827	100	NC -	257802	100	NC -	257839	50	NC -
24	257851	100	NC -	257814	50	NC -	257828	100	NC -	257803	100	NC -	257840	50	NC -
25	257852	100	NC -	257816	100	NC -	257829	100	NC -	257804	100	NC -	257841	50	NC -
37	257853	100	NC -	257817	50	NC -	257830	100	NC -	257805	100	NC -	-	-	-
42.5	257854	100	NC -	257818	50	NC -	257831	100	NC -	257806	100	NC -	257842	50	NC -
47	257855	100	NC -	257820	100	NC -	257832	100	NC -	257807	100	NC -	257843	50	NC -
55	257856	100	NC -	257821	100	NC -	257833	100	NC -	257808	100	NC -	257844	50	NC -
70	257857	100	NC -	257822	50	NC -	257834	100	NC -	257809	100	NC -	257845	50	NC -
90	257858	100	NC -	257823	50	NC -	257835	100	NC -	257810	100	NC -	257846	50	NC -
110	257859	100	NC -	257824	25	NC -	257836	100	NC -	257811	100	NC -	257847	25	NC -
125	257860	100	NC -	257825	25	NC -	257837	100	NC -	257812	100	NC -	257848	25	NC -
150	257861	100	NC -	257826	25	NC -	257838	100	NC -	257813	100	NC -	257849	25	NC -

Glass fibre paper with binder

Grade	Retention range (µm)	Grammage (g/m ²) DIN 53104	Thickness (mm)
FV27	/	73	0.4
FV29	0.6	73	0.35

- With resin binder
- Grade FV29: hydrophilic for liquid analysis
- Grade FV27: hydrophobic for air analysis
- Heat-resistant up to 180°C



Grade	FV27			FV29		
	Part no. Threshold 0.7 µm	Units/ box	€/ box	Part no.	Units/ box	€/ box
47	257874	50	NC -	257883	50	NC -
55	257875	50	NC -	257884	50	NC -
70	257876	50	NC -	257885	50	NC -
90	257877	50	NC -	257886	50	NC -
110	257879	50	NC -	257888	50	NC -
125	257880	50	NC -	257889	50	NC -
150	257881	50	NC -	257890	50	NC -

Phase separation papers

- Hydrophobic replaces the separating funnel
- 85 g/m²
- Box of 100



Ø (mm)	Part no.	Units/box	€/ box
70	258184	100	NC -
90	258185	100	NC -
110	258186	100	NC -
125	258187	100	NC -
150	258188	100	NC -
185	258189	100	NC -
240	258190	100	NC -
270	258191	100	NC -

Binder-free quartz fibre paper for gas control

- 100% quartz fibre
- For monitoring heavy metals suspended in air or gases
- Heat-resistant up to 900°C



Retention range (µm)	Grammage (g/m ²) DIN 53104	Thickness (mm)
1.5	85	0.43

Ø (mm)	Part no.	Units/box	€/ box
25	257891	50	NC -
37	257892	50	NC -
42.5	257893	50	NC -
47	257894	50	NC -
50	257895	50	NC -
55	257896	50	NC -
70	257897	50	NC -
90	257898	50	NC -
110	257899	50	NC -
125	257900	50	NC -
150	257901	50	NC -

Cotton linters extraction cartridge

ClearLine

- Neutral and fat-free
- High-quality fibres for high analysis reproduction capacity
- Box of 25

Part no.	Int. ø x h (mm)	Units/box	€/ box
257784	19 x 90	25	NC -
257785	22 x 80	25	NC -
257786	25 x 80	25	NC -
257787	25 x 100	25	NC -
257788	26 X 60	25	NC -
257789	28 X 80	25	NC -
257790	28 x 100	25	NC -
257791	30 x 80	25	NC -
257792	30 x 100	25	NC -
257793	33 x 80	25	NC -
257794	33 x 94	25	NC -
257795	33 x 100	25	NC -
257796	33 x 118	25	NC -
257797	34 x 130	25	NC -
257798	35 x 150	25	NC -
257799	37 x 130	25	NC -
257800	41 x 123	25	NC -
257801	43 x 123	25	NC -

PES membrane filters

ClearLine

- Asymmetric structure for high throughput and high load capacity
- Low protein affinity



Threshold (µm)	0.22	0.45
Flow rate (mL/min/cm ² @10psi)	11-16	30-48
Bubble point (psi)	51-65	35-53

Ø (mm)	25		47		90	
Threshold (µm)	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100
0.22	258246	NC -	258247	NC -	258248	NC -
0.45	258249	NC -	258250	NC -	258251	NC -

Mixed cellulose ester membrane filters

ClearLine®

- Hydrophilic and mechanically stable
- High load capacity
- For microbiological analysis, colony counting or clarification

Threshold (µm)	0.22	0.45	0.65	0.8	1.2	3	5	8
Flow rate (mL/min/cm ² @10psi)	12-18	38-71	45-58	87-135	85-121	210-320	280-350	300-360
Bubble point (psi)	52-65	29-40	28-33	16-19	12-14	8-11	7-10	7-8

Non-sterile membranes

Ø (mm)	25		47		50		90	
Threshold (µm)	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100
0.22	258204	NC -	258205	NC -	258206	NC -	258207	NC -
0.45	258208	NC -	258209	NC -	258210	NC -	258211	NC -
0.65	258212	NC -	258213	NC -	-	-	-	-
0.8	258214	NC -	258215	NC -	258216	NC -	258217	NC -
1.2	258218	NC -	258219	NC -	-	-	-	-
3	258220	NC -	258221	NC -	-	-	258222	NC -
5	258223	NC -	258224	NC -	-	-	258225	NC -
8	258226	NC -	258227	NC -	-	-	258228	NC -

Sterile membranes

Sterile

Ø (mm)	47		50	
Threshold (µm)	Part no.	€ for 100	Part no.	€ for 100
0.22	258282	NC -	258283	NC -
0.45	258230	NC -	258284	NC -

Sterile gridded membranes

Sterile

Ø (mm)	White with black squares				Black with white squares	
	47		50		47	
Threshold (µm)	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100
0.22	258229	NC -	-	-	-	-
0.45	258231	NC -	258232	NC -	258234	NC -
0.8	258233	NC -	-	-	-	-

Regenerated cellulose membrane filters RC

ClearLine®

- Hydrophilic membranes with high chemical resistance

Threshold (µm)	0.22	0.45
Flow rate (mL/min/cm ² @10psi)	9-11	30-48
Bubble point (psi)	19-22	10-15

Sterile membranes

Ø (mm)	25		47	
Threshold (µm)	Part no.	€ for 100	Part no.	€ for 100
0.22	258261	NC -	258262	NC -
0.45	258263	NC -	258264	NC -

Nylon membrane filters

ClearLine®

- Hydrophilic membranes
- Strong resistance to solvents

Threshold (µm)	0.22	0.45	0.8	1	3
Flow rate (mL/min/cm ² @10psi)	4-6	9-10	35-40	55-65	80-90
Bubble point (psi)	46-56	30-32	14-17	15-18	5-6

Ø (mm)	25		47		50		90	
Threshold (µm)	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100
0.22	258235	NC -	258236	NC -	258237	NC -	258238	NC -
0.45	258239	NC -	258240	NC -	258241	NC -	258242	NC -
0.8	-	-	258243	NC -	-	-	-	-
1	-	-	258244	NC -	-	-	-	-
3	-	-	258245	NC -	-	-	-	-

Hydrophobic PTFE membrane filters

ClearLine®

- Hydrophobic membranes
- PTFE with a layer of PP
- For filtration of gases or chemically aggressive products

Threshold (µm)	0.22	0.45	1	5
Flow rate (mL/min/cm ² @10psi)	8-14	15-29	75-90	447-625
Bubble point (psi)	16-25	14-19	8-9	-

Ø (mm)	25		47		90	
Threshold (µm)	Part no.	€ for 100	Part no.	€ for 100	Part no.	€ for 100
0.22	-	-	258253	NC -	258254	NC -
0.45	258255	NC -	258256	NC -	258257	NC -
1	258285	NC -	258258	NC -	-	-
5	258286	NC -	258259	NC -	258260	NC -

ClearLine® syringe filters

- 9 types of membranes to meet all needs
- Diameter from 13 to 33 mm
- Sterile or non-sterile
- Colour code according to membrane
- Polypropylene body
- Female luer lock inlet/ male luer lock outlet
- Gamma ray sterilisation
- Version with pre-filter for loaded solutions

Syringe filters for biological or mildly aggressive solutions

AC – Cellulose acetate



- Hydrophilic membrane
- Low protein adsorption
- Limited solvent resistance

MCE - Mixed Cellulose Esters



- Hydrophilic membrane
- Biologically inert

PES - Polyethersulfone



- High flow hydrophilic membrane
- High thermal resistance
- Low aspecific adsorption of proteins
- For rapid filtration of viscous solutions

PVDF - Polyvinylidene



- Hydrophobic membrane for protein-rich solutions
- Very low protein adsorption
- Good resistance to solvents

Syringe filters			CA			PES			MCE			PVDF		
Flow rate (ml/min@10psi) at 0.45 µm			92 - 116			118 - 162			85 - 116			70 - 105		
Bubble point (psi) at 0.45 µm			36 - 39			42 - 49			25 - 33			11 - 23		
pH			3 - 7			4 - 8			4 - 8			1 - 14		
Threshold (µm)	Ø (mm)	Part no.	Units/box	€/box	Part no.	Units/box	€/box	Part no.	Units/box	€/box	Part no.	Units/box	€/box	
Non-sterile														
0.22	13	257239	100	NC -	257190	100	NC -	257166	100	NC -	257218	100	NC -	
	25	257155	100	NC -	257194	100	NC -	257170	100	NC -	257214	100	NC -	
	33	257159	100	NC -	257198	100	NC -	257174	100	NC -	257222	100	NC -	
Pre-filter +0.22	25	257245	50	NC -	257247	50	NC -	257271	100	NC -	257249	50	NC -	
0.45	13	257241	100	NC -	257192	100	NC -	257168	100	NC -	257220	100	NC -	
	25	257157	100	NC -	257196	100	NC -	257172	100	NC -	257216	100	NC -	
	33	257161	100	NC -	257200	100	NC -	257176	100	NC -	257224	100	NC -	
Pre-filter +0.45	25	257246	50	NC -	257248	50	NC -	257272	50	NC -	257250	50	NC -	
0.8	25	257244	100	NC -	-	-	-	-	-	-	-	-	-	
1.2	25	257242	100	NC -	-	-	-	-	-	-	-	-	-	
5	25	257243	100	NC -	-	-	-	-	-	-	-	-	-	
Individual sterile packaging														
0.22	13	257240	50	NC -	257191	50	NC -	257167	50	NC -	257219	50	NC -	
	25	257156	50	NC -	257195	50	NC -	257171	50	NC -	257215	50	NC -	
	33	257160	50	NC -	257199	50	NC -	257175	50	NC -	257223	50	NC -	
0.45	13	257154	50	NC -	257193	50	NC -	257169	50	NC -	257221	50	NC -	
	25	257158	50	NC -	257197	50	NC -	257173	50	NC -	257217	50	NC -	
	33	257162	50	NC -	257201	50	NC -	257177	50	NC -	257225	50	NC -	

ClearLine® Luer Lock sterile syringe filters



- PES or AC membrane
- Polypropylene body
- Sterile in individual blister packs

Membrane	Ø (mm)	Threshold 0.2 µm	€ for 50	Threshold 0.45 µm	€ for 50
Cellulose acetate	33	146560	NC -	146561	NC -
PES	33	146564	NC -	-	-

ClearLine® syringe filters

Tip
Enter the part no. on Dutscher.com to see the chemical compatibility guide

Syringe filters for aggressive solutions and solvents

RC - Regenerated cellulose



- Hydrophilic membrane
- Broad chemical compatibility
- Good particle extraction capacity

PP - Polypropylene



- Hydrophobic membrane
- Air and solvent filtration
- High throughput

NYL - Polyamide



- Hydrophilic membrane
- Good chemical resistance

PTFE - Polytetrafluoroethylene



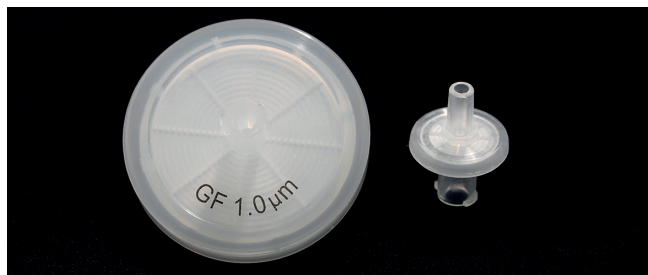
- Hydrophobic membrane
- Air and solvent filtration
- High chemical resistance

Syringe filters		RC			NYLON			PP			PTFE		
Flow rate (ml/min@10psi) at 0.45 µm		53 - 74			47 - 55			550 - 635			90 - 102		
Bubble point (psi) at 0.45 µm		45 - 49			27 - 33			-			10 - 13		
pH		3 - 12			3 - 14			1 - 14			1 - 14		
Threshold (µm)	Ø (mm)	Part no.	Units/box	€/ box	Part no.	Units/box	€/ box	Part no.	Units/box	€/ box	Part no.	Units/box	€/ box
Non-sterile													
0.22	13	257226	100	NC -	257178	100	NC -	257262	100	NC -	257202	100	NC -
	25	257230	100	NC -	257182	100	NC -	257263	100	NC -	257206	100	NC -
	33	257234	100	NC -	257186	100	NC -	257264	100	NC -	257210	100	NC -
Pre-filter +0.22	25	257251	50	NC -	257253	50	NC -	257257	100	NC -	257255	50	NC -
0.45	13	257228	100	NC -	257180	100	NC -	257265	100	NC -	257204	100	NC -
	25	257232	100	NC -	257184	100	NC -	257266	100	NC -	257208	100	NC -
	33	257236	100	NC -	257188	100	NC -	257267	100	NC -	257212	100	NC -
Pre-filter +0.45	25	257252	50	NC -	257254	50	NC -	257258	100	NC -	257256	50	NC -
0.8	25	-	-	-	257259	50	NC -	-	-	-	-	-	-
1.2	25	-	-	-	257260	50	NC -	-	-	-	-	-	-
3	25	-	-	-	-	-	-	-	-	-	257268	10	NC -
5	25	-	-	-	257261	50	NC -	-	-	-	-	-	-
Individual sterile packaging													
0.22	13	257227	50	NC -	257179	50	NC -	-	-	-	257203	50	NC -
	25	257231	50	NC -	257183	50	NC -	-	-	-	257207	50	NC -
	33	257235	50	NC -	257187	50	NC -	-	-	-	257211	50	NC -
0.45	13	257229	50	NC -	257181	50	NC -	-	-	-	257205	50	NC -
	25	257233	50	NC -	257185	50	NC -	-	-	-	257209	50	NC -
	33	257237	50	NC -	257189	50	NC -	-	-	-	257213	50	NC -

FV - Fiberglass

- Pre-filtration of charged solutions
- Non-sterile
- High chemical compatibility
- pH 1-14

Syringe filters		Non-sterile VF		
Threshold (µm)	Ø (mm)	Part no.	Units/box	€/ box
1 - 2	13	257163	100	NC -
	25	257164	100	NC -
	33	257165	100	NC -



SLS Select borosilicate glass bottles



- Made of high quality borosilicate glass 3.3 according to ISO 3585
- ISO 4796-1
- With blue polypropylene cap and drip-free spill ring
- Excellent chemical and thermal resistance
- With white scale and marking area

Part no.	Volume (ml)	ø x h (mm)	Units/box	€/box
257063	100	56 x 100	10	NC -
257064	250	70 x 138	10	NC -
257065	500	86 x 176	10	NC -
257066	1000	101 x 225	10	NC -
257067	2000	136 x 260	10	NC -
257107	5000	186 x 330	1	NC -
257108	10000	234 x 410	1	NC -
257109	20000	299 x 505	1	NC -

SLS Select borosilicate glass beakers



- Made of high quality borosilicate glass
- With white scales and marking area
- Excellent chemical and thermal resistance

Cat. No.	Volume (ml)	ø x h (mm)	Units/box	€/box
257055	25	34 x 50	12	NC -
257056	50	42 x 60	12	NC -
257057	100	50 x 70	12	NC -
257058	150	60 x 80	12	NC -
257059	250	70 x 95	12	NC -
257060	400	80 x 110	12	NC -
257061	600	90 x 125	6	NC -
257062	1000	105 x 145	6	NC -
257145	5000	170 x 270	2	NC -
257146	10000	217 x 350	1	NC -
257147	20000	285 x 430	1	NC -

Class B SLS Select test tubes



- Class B
- Robust hexagonal base
- With white scales
- Made of high quality borosilicate glass
- Excellent chemical and thermal resistance

Cat. No.	Volume (ml)	Height (mm)	Units/box	€/box
257073	10	135	2	NC -
257074	25	160	2	NC -
257075	50	195	2	NC -
257076	100	250	2	NC -
257077	250	300	2	NC -
257078	500	350	2	NC -
257079	1000	430	1	NC -

Erlenmeyer flask with narrow neck SLS Select



- Made of high quality borosilicate glass
- With white scales and marking area
- Excellent chemical and thermal resistance

Cat. No.	Volume (ml)	ø x h (mm)	Internal neck Ø (mm)	Units/box	€/box
257068	50	80 x 54	24	12	NC -
257069	100	105 x 64	29	12	NC -
257070	250	145 x 85	31	6	NC -
257071	500	184 x 103	36	6	NC -
257072	1000	131 x 214	42	6	NC -

ClearLine® multi-purpose bags

- Made of translucent HDPE, thickness 0.45 µm
- For use up to 121 °C

Part no.	Dimensions (mm)	Units/box	€/ box
076056B	350 x 530	50	NC -
076057B	500 x 930	50	NC -



Biohazard colour sample bags

- Made of polyethylene
- Zip closure
- Writing range
- Double pocket
- Biohazard" printed in orange
- Dimensions: 16 x 16 cm

Part no.	Colour	Units/box	€/ box
390934	Blue	1000	NC -
390935	Red	1000	NC -
390936	Orange	1000	NC -
390937	Pink	1000	NC -
390938	Purple	1000	NC -
390607B	Yellow	1000	NC -
390608B	Green	1000	NC -
390854B	Transparent	1000	NC -

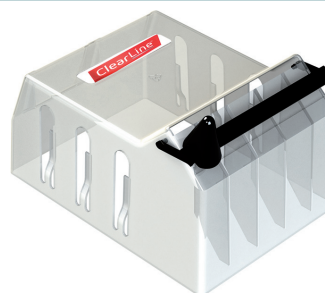


ClearLine® Top Cut film dispenser

Easy to use, place directly on the Parafilm can.

- In ABS
- Easy to clean
- For 1 roll 10 cm or 2 rolls 5 cm
- Slider cutter for safe cutting
- Dimensions W x D x H: 123 x 172 x 99 mm

Part no.	Designation	€
257014	ClearLine® Top Cut film dispenser	NC -



ClearLine® permanent markers

- Ink resistant to -200°C
- Water- and rub-resistant ink
- Fast drying on the substrate
- Xylene and toluene free ink
- Line width:
 - double tip: 0.6 mm and 1.5 mm
 - medium tip: 1.0 mm
 - extra-fine tip : 0.4 mm

Colour	Double tip		Medium tip		Super fine tip	
	Part no.	€	Part no.	€	Part no.	€
Red	-	NC -	929208	NC -	929204	NC -
Blue	-	-	929209	NC -	929205	NC -
Green	929202	NC -	929210	NC -	929206	NC -
Black	-	-	929211	NC -	929207	NC -
Yellow	-	-	929218	NC -	929214	NC -
Orange	-	-	929219	NC -	929215	NC -
Purple	-	-	929220	NC -	929216	NC -
Brown	-	-	929221	NC -	929217	NC -



Super fine tip



Cases (4 colours: red, blue, green and black)

Part no.	Designation	€
929212	Set of 4 markers with extra fine tip	NC -
929213	Set of 4 markers with medium tip	NC -

ClearLine® adhesive tapes

ClearLine

Coloured rolls of adhesive tape designed for the laboratory

- Robust, water, oil and acid resistant
- Can be used in freezer at - 80 °C and in autoclave for 15 minutes at + 121 °C
- For marking with pen, pencil or permanent marker
- Sticks to most surfaces: glass, plastic and metals
- Easy and clean to remove
- Available in 2 lengths (12 m and 55 m) and 3 widths (13, 19 and 25 mm)

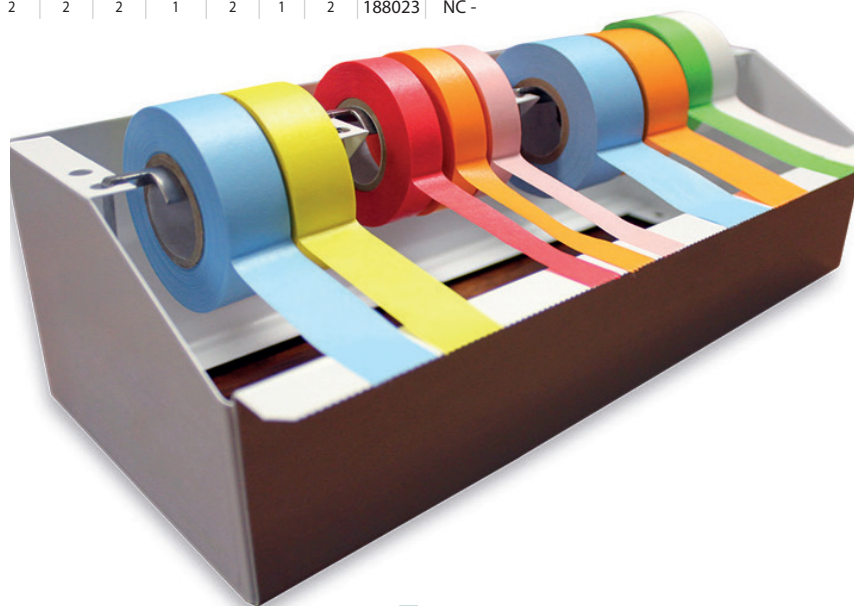


Tip

Custom printed ribbons : consult us

Rainbow Packs: assorted colours

Designation	Contents (in rolls)							Part no.	€
	White	Yellow	Red	Orange	Green	Blue	Pink		
Rainbow Pack: 24 rolls 12 m x 13 mm	5	4	3	3	3	3	3	188007	NC -
Rainbow Pack: 16 rolls 12 m x 19 mm	4	2	2	2	2	2	2	188015	NC -
Rainbow Pack: 12 rolls 12 m x 25 mm	2	2	2	1	2	1	2	188023	NC -



ClearLine® adhesive tape length 12 m

Width (mm)	13		19		25	
No. of rolls	6	1	4	1	3	1
White	188000	188000A	188008	188008A	188016	188016A
Yellow	188001	188001A	188009	188009A	188017	188017A
Green	188002	188002A	188010	188010A	188018	188018A
Red	188003	188003A	188011	188011A	188019	188019A
Orange	188004	188004A	188012	188012A	188020	188020A
Blue	188005	188005A	188013	188013A	188021	188021A
Pink	188006	188006A	188014	188014A	188022	188022A
Turquoise	188048	188048A	188050	188050A	188052	188052A
Fuchsia	188049	188049A	188051	188051A	188053	188053A
Ochre	188061	188061A	188071	188071A	188081	188081A
Salmon	188062	188062A	188072	188072A	188082	188082A
Copper	188063	188063A	188073	188073A	188083	188083A
Purple	188064	188064A	188074	188074A	188084	188084A
Lavender	188065	188065A	188075	188075A	188085	188085A
Grey	188066	188066A	188076	188076A	188086	188086A
Lime	188067	188067A	188077	188077A	188087	188087A
Chartreuse green	188068	188068A	188078	188078A	188088	188088A
Gold	188069	188069A	188079	188079A	188089	188089A
Silver	188070	188070A	188080	188080A	188090	188090A
€	NC -	NC -	NC -	NC -	NC -	NC -

ClearLine® adhesive tape length 55 m

Width (mm)	13		19		25	
No. of rolls	6	1	4	1	3	1
White	188024	188024A	188031	188031A	188038	188038A
Yellow	188025	188025A	188032	188032A	188039	188039A
Green	188026	188026A	188033	188033A	188040	188040A
Red	188027	188027A	188034	188034A	188041	188041A
Orange	188028	188028A	188035	188035A	188042	188042A
Blue	188029	188029A	188036	188036A	188043	188043A
Pink	188030	188030A	188037	188037A	188044	188044A
Turquoise	188054	188054A	188056	188056A	188058	188058A
Fuchsia	188055	188055A	188057	188057A	188059	188059A
Ochre	188091	188091A	188101	188101A	188111	188111A
Salmon	188092	188092A	188102	188102A	188112	188112A
Copper	188093	188093A	188103	188103A	188113	188113A
Purple	188094	188094A	188104	188104A	188114	188114A
Lavender	188095	188095A	188105	188105A	188115	188115A
Grey	188096	188096A	188106	188106A	188116	188116A
Lime	188097	188097A	188107	188107A	188117	188117A
Chartreuse green	188098	188098A	188108	188108A	188118	188118A
Gold	188099	188099A	188109	188109A	188119	188119A
Silver	188100	188100A	188110	188110A	188120	188120A
€	NC -	NC -	NC -	NC -	NC -	NC -

ClearLine® dispensers for rolls

Part no.	Designation	€
188045	Multi-roll dispenser for 55 m adhesive tapes, 4 compartments of 60 mm	NC -
188046	Multi-roll dispenser for 12 m adhesive tapes, 4 compartments of 65 mm	NC -
188047	ClearLine® individual dispenser for 12 m adhesive tape	NC -
188060	ClearLine® Individual dispenser for 12 and 55 m adhesive tapes	NC -



188060

ClearLine® labels for cryogenics

- Operating temperature: -196 °C to +121 °C
- On US letter size sheet, for laser printer
- Marking with pen and marker
- Does not come off in a water bath

Safety labels

Ø (mm)	9.5
Biohazard	188499
Radioactive	188500
Units/roll	1000
€	NC -



Labels on sheet

Dimensions L x W or Ø (mm)	9.5	13	24 x 13	33 x 13	38 x 6	38 x 19	43 x 19	67 x 25	76 x 51	25 x 25
For	Microtubes 0.5 - 1.5 ml	Microtubes 1.5 - 2 ml	Microtubes 0.5 ml	Microtubes 1.5 - 2 ml	Microplates	General	Cryotubes	Boxes	Boxes	Microscope slides
White	188401	188408	188415	188422	188429	188436	188443	188450	188457	188458
Blue	188402	188409	188416	188423	188430	188437	188444	188451	-	-
Green	188403	188410	188417	188424	188431	188438	188445	188452	-	-
Yellow	188404	188411	188418	188425	188432	188439	188446	188453	-	-
Orange	188405	188412	188419	188426	188433	188440	188447	188454	-	-
Red	188406	188413	188420	188427	188434	188441	188448	188455	-	-
Units/package	3840	3840	2380	1700	3120	1200	1040	600	240	1600
€	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -
Assorted colours	188407	188414	188421	188428	188435	188442	188449	188456	-	-
Units/package	4800	4800	2975	2125	3900	1500	1300	750	-	-
€	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -	-	-

Labels on roll

Dimensions L x W or Ø (mm)	9.5	13	19	25	21 x 7	24 x 13	33 x 13	38 x 19
For	Microtubes 0.5 - 1.5 ml	Microtubes 1.5 - 2 ml	Tubes 15 - 50 ml	Tubes 50 ml	Microtubes 0.5 ml	Microtubes 0.5 ml	Microtubes 1.5 - 2 ml	General use
White	188459	188471	188483	188484	188485	188486	188487	188493
Lavender	188460	188472	-	-	-	-	-	-
Blue	188461	188473	-	-	-	-	188488	188494
Green	188462	188474	-	-	-	-	188489	188495
Yellow	188463	188475	-	-	-	-	188490	188496
Orange	188464	188476	-	-	-	-	188491	188497
Pink	188465	188477	-	-	-	-	-	-
Red	188466	188478	-	-	-	-	188492	188498
Brown	188467	188479	-	-	-	-	-	-
Gold	188468	188480	-	-	-	-	-	-
Silver	188469	188481	-	-	-	-	-	-
Units/roll	1000	1000	1000	500	1500	1000	1000	1000
€	NC -	NC -	NC -	NC -	NC -	NC -	NC -	NC -
Assorted colours*	188470	188482	-	-	-	-	-	-
Units/roll	5000	5000	-	-	-	-	-	-
€	NC -	NC -	-	-	-	-	-	-

* Colours: green, red, blue, yellow and purple.

ClearLine® moisturising cream

For hands exposed to repeated washing, irritants, cold or gloves.

- For daily prevention and repair
- Moisturises, repairs and penetrates quickly, non-greasy
- Suitable for all skin types
- Maintains the hydrolipidic balance and pH of the skin
- Paraben-free, dye-free and fragrance-free
- Developed, manufactured and controlled under pharmaceutical supervision



Part no.	Designation	€
257113	ClearLine® moisturising cream 50 ml	NC -

Prices are indicative and excluding tax. Visit Dutscher.com

ClearLine® mini magnetic stirrer

ClearLine®



Interface	Analog
Stirring capacity (l)	1.5
Speed (rpm)	100 - 1500
Dimensions tray (mm)	85 x 85
Dim. (W x D x H) (mm)	120 x 120 x 30
Weight (kg)	0.2
Conditions to use	+4 to +45 °C / 80% RH
Part no.	062703CL
€	NC -

ClearLine® miniature vortex mixer

ClearLine®



Miniature model to save bench space

Speed (rpm)	2800 fixed
Orbit (mm)	4
Dimensions (L x W x H)(mm)	94 x 99 x 66
Weight (kg)	0.4
Conditions to use	+4 to +65 °C
Part no.	062599CL
€	NC -

ClearLine® vortex shaker for microplates

ClearLine®



060976CL



■ 2-year guarantee

Interface	Digital
Speed (rpm)	200 - 1500
Orbit (mm)	3
Standard capacity	4 microplates SBS
Operating mode	Timer or continuous
Timer / programming	1min to 99h
Dimensions (L x W x H)(mm)	333 x 298 x 120
Weight (kg)	5.5
Conditions to use	+4 to +65 °C
Part no.	060976CL
€	NC -

ClearLine® Blotter orbital shaker

ClearLine®



060954CL

■ Supplied with non-slip platform

Interface	Analog
Speed (rpm)	3 - 70
Orbit (mm)	19
Dimensions tray (mm)	350 x 300
Maximum load (kg)	4
Operating mode	Continuous
Dimensions (L x W x H)(mm)	355 x 305 x 200
Weight (kg)	3.4
Conditions to use	+4 to +45 °C
Part no.	060954CL
€	NC -



ClearLine® mini orbital shaker

ClearLine®

- Supplied with non-slip platform
- 5-year guarantee

Interface	Digital
Speed (rpm)	50 - 300
Orbit (mm)	19
Dimensions tray (mm)	240 x 200
Maximum load (kg)	4
Operating mode	Continuous or timer
Timer	1min to 99h
Dimensions (L x W x H)(mm)	333 x 298 x 120
Weight (kg)	5.5
Conditions to use	+4 to +65 °C
Part no.	060956CL
€	NC -



ClearLine® tactile orbital shaker

ClearLine®

- Supplied with non-slip platform
- 5-year guarantee

Interface	Tactile
Speed (rpm)	30 - 300
Orbit (mm)	19
Dimensions tray (mm)	330 x 300
Maximum load (kg)	6
Operating mode	Continuous or timer
Timer	1min to 99h
Dimensions (L x W x H)(mm)	280 x 430 x 75
Weight (kg)	11.25
Conditions to use	+4 to +65 °C
Part number	062819CL
€	NC -



ClearLine® rotary shaker

ClearLine®

- Reversible rotation mode with selectable rotation angle
- Supplied complete with 3 carousels
- 5-year guarantee

Interface	Digital
Speed (rpm)	1 - 40
Stirring angle	Adjustable 0 - 90°
Standard capacity	3 carousels included: - 48 microtubes 1.5/2.0ml - 20 centrifuge tubes 15 ml - 20 centrifuge tubes 50 ml
Operating mode	Continuous or timer
Timer	1s to 99h
Dimensions (W x D x H) (mm)	210 x 270 x 320
Weight (kg)	3.2
Conditions to use	+4 to +65 °C
Part no.	062646CL
€	NC -



According to model



ClearLine® rotary arm shakers

ClearLine

- Advanced programming with a wide choice of rotation modes
- Supplied with adapters for 1.5/2.0 ml, 15 ml and 50 ml tubes
- Optional platform for conversion to rocker shaker

The most flexible of our rotary shakers

Model	Standard	Mini
Interface	Digital	
Speed (rpm)	1 - 80	
Adapters included	5 x 6 tubes 1.5/2.0 ml 8 x 1 tube 15 ml 2 x 1 tube 50 ml	2 x 6 tubes 1.5/2.0 ml 2 x 1 tube 15 ml 2 x 1 tube 50 ml
Operating mode	Continuous, timer or programs	
Timer	1s to 99h59min	
Programming	11 presets, 2 free programmes	
Dimensions (W x D x H) (mm)	410 x 137 x 199	290 x 137 x 199
Weight (kg)	2.27	1.8
Conditions to use	+2 to +70 °C	
Part no.	062649CL	062650CL
€	NC -	NC -



LabPro SLS Water Baths

- Overheating alarm
- Anti-microbial coating
- Drain tap from 10l bath
- Supplied with lid (recommended for temperatures above 60°C)

Interface	Digital				
Volume (l)	2	4	14	22	28
Internal dimensions (L x W x H) (mm)	300 x 150 x 65	300 x 150 x 150	325 x 300 x 150	500 x 300 x 150	500 x 300 x 200
Temperature range (°C)	Ambient +5 to +99 °C				
Temperature accuracy (°C)	0.1				
Temperature uniformity (°C)	± 0.1				
Temperature stability (°C)	± 0.2				
Operating mode	Continuous				
Ext. dimensions (W x D x H) (mm)	332 x 185 x 135	332 x 185 x 290	36 x 332 x 290	538 x 332 x 290	
Weight (kg)	5.5	5.5	8	11	11
Part no. water baths	257096	257097	257098	257099	257100
€	NC -	NC -	NC -	NC -	NC -
Part no. transparent cover	-	257104	257105	257106	-
€	-	NC -	NC -	NC -	-



SLS Lab Pro Thermostatic Baths

- Level detector with automatic stop
- Antimicrobial coating
- Supplied with a raised stainless steel shelf
- 3-year guarantee

Interface	Digital		
Volume (l)	8	14	22
Internal dimensions (l x p x h) (mm)	129 x 300 x 150	319 x 298 x 150	395 x 298 x 150
Temperature range (°C)	Ambient +5 to +99 °C		
Temperature accuracy (°C)	0.1		
Temperature uniformity (°C)	± 0.01		
Temperature stability (°C)	± 0.5		
Heating power (kW)	0.5		
Pt1000 probe port	No		
Operating mode	Continuous or timer		
Timer	1min to 99h59min		
Dimensions (L x W x H) (mm)	271 x 332 x 170	361 x 332 x 170	537 x 332 x 170
Part no.	257093	257094	257095
€	NC -	NC -	NC -
Part no. stainless steel lid	257101	257102	257103
€	NC -	NC -	NC -



ClearLine® microcentrifuge for PCR plates

ClearLine®

- Unique free rotor design prevents splashing
- Smaller size
- Accepts all types of PCR plates, microplates, and Deepwell plates (with optional rotor)
- Warranty: 5 years

Speed (rpm)	2100
RCF acceleration (g)	400
Capacity	2 PCR plates * or 2 microplates or 192 PCR tubes 0.2 ml or 24 strips of 8 tubes
Deceleration (s)	7
Dimensions (W x L x H) (mm)	230 x 260 x 197
Weight (kg)	4
Power	230 V, 50 Hz
Part no.	062583CL
€	NC -

* Maximum capacity 4 plates in a stack (with optional deepwell rotor)



Before and after centrifugation



During centrifugation



SLS Lab Basics microcentrifuges

LAB BASICS

- Microcentrifuge ideal for concentrating drops at the bottom of the tube: microtubes or PCR tubes
- Compact design
- Silent (≤ 45 dB)
- Easy to use: automatic start-up and switch-off when the lid is closed/opened

Supplied with 2 rotors:

- + one rotor 8 microtubes 0.2/0.5/1.5/2.0 ml
- + a rotor for 4 strips of 8 PCR tubes

Speed (rpm)	7000	
RCF acceleration (g)	2680	
Capacity	8 microtubes or 32 0.2 ml PCR tubes	
Dimensions L x D x H (mm)	160 x 170 x 122	
Weight (kg)	0.5	
Colour	Grey	Red
Part no.	258353	258352
€	NC -	NC -



Our Selection

NEW

ClearLine® DNA and PCR workstations

ClearLine®

- UV chamber with bactericidal UV lamps of wavelength 254 nm
- Models with glass or plexiglass walls
- Digital timer
- Internal lighting: white light (15 W lamp)
- Passage through the chamber for external connection

- Ideal for safe sample preparation:
 - UV radiation disinfects the inner surface, deactivating any DNA/RNA, in 15-30 min
 - automatic shut-off of radiation when the door is opened
 - bactericidal chamber decontamination system, by cleaning-air circulation
 - ozone-free radiation

Model	Plexiglas	Glass	Glass 1200 mm
UV radiation			
Wavelength	253.7 nm		
UV lamp	1 x 25 W	2 x 30 W	
UV intensity	15 mV/cm2/s		
UV recirculator (efficiency ' 99% / h)	1 x 25 W	1 x 30 W	
Walls			
Material	Plexiglas	Glass	Glass
Lateral thickness (mm)	4		
Front thickness (mm)	8		
Screen thickness (mm)	8	4	5
Optical transmission	92 %	95 %	
UV protection	> 99.9 %	> 96 %	
Other information			
Ext. dim. (mm) L x W x H	690 x 535 x 555		1245 x 585 x 585
Work surface (mm)	650 x 475		1200 x 520
Net weight (kg)	23	31	58
Gross weight (kg)	33	39	68.5
Power consumption	253 W ; 1.2 A		320 VA (1.4 A)
Electric Power supply	230 V/50 Hz		230 V, 50/60 Hz
Part no.	490005	490005B	712247
€	NC -	NC -	NC -

Prices are indicative and excluding tax. Visit Dutscher.com



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