



MADEinITALY CATALOGUE

BIOTECHNOLOGY AND CLINICAL CHEMISTRY PRODUCTS



CLEARLine®
"Be cool, be safe, be CLEARLine"



Thanks to the use of high quality raw materials and specific procedures during production phase, our CLEARLine products are ideal for the most sensitive applications. Manufactured under conditions with strict quality standards, the purity of the products is certified by lot by an external accredited laboratory.

The lot-specific certificates are available on request and can also be downloaded from:
www.biosigma.com



Registered trade mark identifying CLEARLine products manufactured by Biosigma

Registered trade mark identifying accessories for CLEARLine products

Trade mark identifying CLEARLine
products distributed by Biosigma

BIOSIGMA S.p.A.

as a GREEN COMPANY



Enter the Biosigma's forest. Request your tree for free.
Scan the qr code and redeem your tree.

Welcome to the Jungle.

Treedom is the first platform in the world that allows you to plant a tree from a distance and follow the story of the project online.

Since its foundation in 2010 in Florence, more than 3.000.000 trees have been planted in Africa, South America and Italy. All trees are planted directly by local farmers and bring environmental, social and financial benefits to their communities. Thanks to its business model, in 2014 Treedom became part of the Certified B Corporations, a network of companies that stand out for high environmental and social performance.

WE PREFER THE "GREEN"

OUR COMMITMENT TO SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL PROTECTION



Since 2010, in respect of the environment, the energy used in the Biosigma plants is self-produced from renewable sources or, for the remainder, purchased with a TUV Green Certificate. CLEARLine® products are manufactured in Italy with respect for the environment.



Since 2013 Biosigma has successfully obtained the UNI EN ISO 14001 environmental certification. Achieving a balance between environment, society and economy is considered essential to meet the needs of the present without compromising the ability of future generations to satisfy their own. That is why with the adoption of this standard, Biosigma aims to protect the environment by preventing or mitigating negative environmental impacts and to continuously improve its environmental performance.



Greener items: less plastic, reduced packaging, recyclable packaging, equipment with lower electricity consumption, recyclable waste, easily repairable equipment, etc ...
At the same time we select and prefer products with these characteristics; these items can be identified by their Go-Green logo in our catalogs and on www.biosigma.com



We encourage smart working and video calls with our customers and suppliers.
Let's reduce the consumption of hard coal!



Electric mobility is important.
Free charging station available to all.



95% of our cardboard, paper and plastic waste is sorted, entrusted to a recycling company and thus escapes incineration or landfill.



The Biosigma Forest. The project is to buy 500 trees every year and to give them to our collaborators.



Lighting of our factory 100% LED.



Catalogs printed on recycled and recyclable paper, itself made from wood, a renewable resource, using non-toxic inks from a certified service provider.

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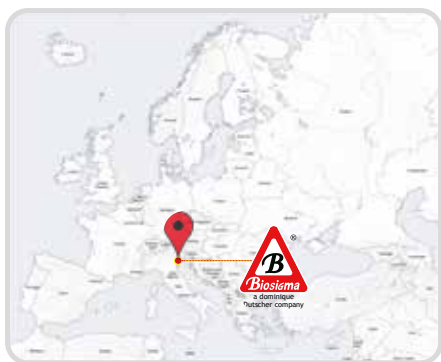
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Company Profile



Since 1988 Biosigma S.p.A. produces and distributes disposable plastic items for biotechnology, research, clinical chemistry and pharmaceutical laboratories.

In our over 12,000 sqm facilities, we dispose of latest injection machines and informatics tools that allow production of high standard quality articles still being competitive on the worldwide market

Every customer can count on a perfectly organized structure, ISO 13485, OHSAS 45001 and ISO 14001 certified, able to adapt our biotechnology products and services to continuous demands of the market. We offer our customers experience and professional competence; customer satisfaction and quality of our products are always our main targets.

Our efforts in research and development allow us to offer a growing and more advanced range of products both in Clinical Chemistry and Biotechnology fields.

Most of the products manufactured by Biosigma are classified as in vitro diagnostic medical devices and therefore they are CE marked in accordance with current legislation.

Since August 2011 Biosigma became part of Dominique Dutscher Group, leader in the distribution of consumables and equipments for life science and biotechnology market. Over 200,000-product catalogue and more than 140 brands such as Eppendorf, Thermo, Gilson, Nalgene Nunc.

For further information visit www.dutscher.com

Certifications



" Biosigma is always focused on the safety and the quality of its work reaching the most important certifications "

ISO 13485 Quality System Certificate demonstrates and promotes the company's commitment to organizational policies aimed at providing products and services in line with regulatory and market requirements related to the medical field.



ISO 14001 is a tool that will allow the organization to manage the environmental impacts of its activities in accordance with the applicable law, continuous improvement, from a pro-active attitude towards environmental issues.



The certification of the management system of health and safety in the workplace UNI ISO 45001:2018 is intended to provide security and tranquility that problems regarding the safety and health related to production processes are managed in a controlled way and that benefits in terms of safety are always monitored starting from the respect of conformity to mandatory legislation.



Registration Number: 3002945499

The production establishment and IVD Biosigma devices are registered with the FDA (Food and Drug Administration).

CE Marking



Most of the products manufactured by Biosigma are classified as in vitro diagnostic medical devices and therefore they are CE marked in accordance with current legislation.

Summary



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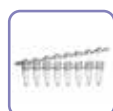
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Search **CLEARLine**
certificates of analysis on
www.biosigma.com/certificate

		BIOSIGMA S.p.A. - a Dominique Dutcher Company	Modello: C. 1021-21-A Rev. 02/2012
Certificato di Analisi / Certificate of Analysis			
Codice Prodotto / Catalogue number :		CL5AR8IPSTS/8	
Numero Lotto / Lot Number :		22P1099600	
Scadenza / Expiry Date :		2026/10	
<p>DNA umano / Human DNA: Metodo / Method : Polymerase Chain Reaction Limiti / Limit : < 2 pg. meno di una cellula umana / less than one human cell</p> <p>DNase Metodo / Method : Digestione DNA / DNA digestion Limiti / Limit : Non rilevabile / not detectable (LOD <1X10⁶ Kunitz-units)</p> <p>RNase Metodo / Method : Digestione RNA / RNA digestion Limiti / Limit : Non rilevabile/not detectable (LOD <1X10⁶ Kunitz-units)</p> <p>Inibizione PCR / PCR Inhibition: Metodo / Method : Polymerase Chain Reaction Limiti / Limit : Nessuna PCR inibizione rilevabile / no PCR inhibition detectable</p> <p>Endotossine / Endotoxin : Metodo / Method : LAL TEST Cromogenico / Chromogenic LAL TEST Limiti / Limit : < 0,01 EU/ml</p> <p>ATP Metodo / Method : Luminescenza / Luminescence Limiti / Limit : < 5X10⁻⁷ mmol/l</p> <p>I test del lotto sopra descritto hanno dimostrato la conformità ai limiti di rilevamento. Il lotto viene rilasciato per l'uso. Testing of the above described lot showed conformity within limits of detection. The Lot is released for use.</p> <p>I risultati dei test si riferiscono esclusivamente agli articoli testati. The test results refer exclusively to the item tested.</p>			
Dott. Giuseppe Cannino PhD Responsabile del Laboratorio Responsible for the Laboratory		Data di Rilascio / Date of release (Giorno-Mese-Anno) (Day-Month-Year) 5/10/22	
<p>Biosigma S.p.A. - a Dominique Dutcher Company Via Valerio, 61 - 35070 Carpinara di Cinea (VI), Italy Tel. ++39 0426 302294 Fax ++39 0426 302228 Email: info@biosigma.com www.biosigma.com www.biosigma.com Cap. Soc. 99.000 € i.v. C.F. 02179802811 Codice 04/002049 - P.I.B. 011000000000 - B. 00077 F.E.A. di Venezia - Registro A.B.E. 078000000000 - R.N.P.A. 071080000000</p>			



CRYOWARE

For more details please visit:

<http://www.biosigma.com/cryoware.html>



A complete line of cryogenic vials and boxes to store specimens at temperatures as LOW AS -196 C° (vapor phase of liquid nitrogen).

Biosigma CryoGen® tubes are certified Human DNA, DNase/RNase/Pyrogen/ATP/PCR Inhibitors free, sterile SAL 10⁻⁶ and IATA PI 650, with a unique and consecutive 1D barcode printed on the tubes' bodies.

The line also includes 2D CryoGen® tubes, in addition to 1D linear barcode, having a 2D data matrix barcode on the tubes' bottoms.

CryoGen® vials can be stored into Biosigma CryoGen® boxes, 25, 81 or 100 places, provided of 1D linear barcode printed on the box side or 2D CryoGen® boxes with also 2D matrix barcoded on boxes' bottoms.

Cryoboxes are made of polycarbonate to resist at temperatures as LOW AS -196 C° (vapor phase of liquid nitrogen).

Autoclavable at 120 C° for 20 minutes.

Medical grade raw material certified USP Class VI, in accordance with United States Pharmacopeia and ISO 10993.

WARNING

Do not store CryoGen® tubes in liquid phase Nitrogen. Ingress of Nitrogen into the tube can occur by causing the tube to rupture when taken out of storage. May cause injury and loss of tube contents. Working Temperature: suitable for storage from general cold storage refrigeration (+4°C) down to the vapor phase of liquid nitrogen.

1D CRYOLINE

CryoGen® Tubes / **1D** linear barcode



- ▶ Human DNA, DNase, RNase, Pyrogen, ATP, PCR inhibitors free certified*
- ▶ Sterile SAL 10⁻⁶ *
- ▶ CE-IVD marked *
- ▶ Certified IATA PI 650

- ▶ Working Temperature: suitable for storage from general cold storage refrigeration (+4°C) down to the vapor phase of liquid nitrogen
- ▶ Tubes in Polypropylene / Caps in Polyethylene and TPV

* Certificate of analysis and Certificate of validated Beta rays treatment are available for download on www.biosigma.com

CLEARLine®
"Be cool, be safe, be CLEARLine"



Color coded inserts are available to fit both internal and external caps for quick sample identification

Star shaped top cavity is engineered for use with automatic decapping equipment

Innovative internal and external screw caps are produced from medical grade polyethylene (PE) and are co-molded with a thermoplastic elastomer (TPV) to provide a 100% leak-proof seal

Chemical resistant caps

Produced from medical grade raw materials that will not discolor after re-sterilizing

Slim profile external caps ensure better fit in standard racks and boxes

Vials and caps are **autoclavable**

Standard code 128 barcode unique and unrepeatable on each vial includes human readable characters printed in both left and right hand orientation for easy readability by all users

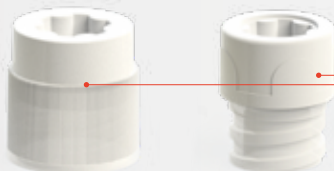
Printed graduations for accurate measurements

White writing surface for specimen identification

Chemical resistant polypropylene (PP) vial

Round bottom or **self standing**

Self-standing vials interlock in workstations



Our innovative screw caps **eliminate leakage and contamination**. Both internal and external screw caps are co-molded with a thermoplastic elastomer (TPV) layer and are 95kPa certified to provide a 100% leak-proof seal. This proprietary molding process eliminates the risk of contamination associated with brands that use separate o-rings.



Dispenser Box
500 pcs (10 bags of 50)



Inner sealed Zip bag of 50 pcs
With sterilization indicator

CryoGen® Tubes / 1D linear barcode **INTERNAL CAP Tubes**

CLEARLine®
"Be cool, be safe, be CLEARLine"



CryoGen Tubes Internal cap

Sterile, DNase, RNase, Human DNA, ATP, Pyrogen free



1.2 ml



2.0 ml



4.0 ml



5.0 ml



Internal cap - case / 500

CAT. NO.	Vol. (ml)	Height (cm)	Bottom style	Internal packaging	Sale unit
CL1ARBIPSTS	1.2	4.27	Self Standing	bag / 50	case / 500
CL2ARBIPSTS	2.0	4.82	Self Standing	bag / 50	case / 500
CL2ARIPSTS	2.0	4.70	Round bottom	bag / 50	case / 500
CL4ARBIPSTS	4.0	7.62	Self Standing	bag / 50	case / 500
CL4ARIPSTS	4.0	7.50	Round bottom	bag / 50	case / 500
CL5ARBIPSTS	5.0	9.03	Self Standing	bag / 50	case / 500
CL5ARIPSTS	5.0	8.92	Round bottom	bag / 50	case / 500

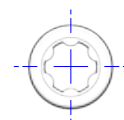
Internal cap - packaging in bulk

CAT. NO.	Vol. (ml)	Height (cm)	Bottom style	Internal packaging	Sale unit
CL1ARBIPSTS/B	1.2	4.27	Self Standing	bag / 50	carton / 4500
CL2ARBIPSTS/B	2.0	4.82	Self Standing	bag / 50	carton / 4000
CL2ARIPSTS/B	2.0	4.70	Round bottom	bag / 50	carton / 4000
CL4ARBIPSTS/B	4.0	7.62	Self Standing	bag / 50	carton / 2500
CL4ARIPSTS/B	4.0	7.50	Round bottom	bag / 50	carton / 2500
CL5ARBIPSTS/B	5.0	9.03	Self Standing	bag / 50	carton / 2000
CL5ARIPSTS/B	5.0	8.92	Round bottom	bag / 50	carton / 2000

6 different colors caps available. To order add ending as follows:
/AZ (blue) /BI(white) /G(yellow) /RO(red) /V(green) /VI(violet)

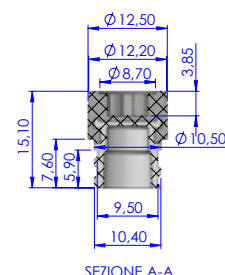
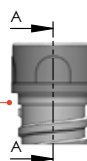


For automatic capper/decapper
Star shaped top cavity is engineered for use with automatic decapping equipment (see page 19)



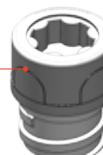
No contamination risk

Our innovative screw caps eliminate leakage and contamination. Both internal and external screw caps are co-molded with a thermoplastic elastomer (TPV) layer and are 95kPa certified to provide a 100% leak-proof seal. This proprietary molding process eliminates the risk of contamination associated with brands that use separate o-rings.



Insert for color coding

Color coded inserts are available to fit both internal and external caps for quick sample identification (see page 22)



CryoGen® Tubes / 1D linear barcode **EXTERNAL CAP Tubes**

CLEARLine®
"Be cool, be safe, be CLEARLine"



CryoGen Tubes External cap

Sterile, DNase, RNase, Human DNA, ATP, Pyrogen free



1.2 ml



2.0 ml



3.0 ml



4.0 ml



5.0 ml

External cap - case / 500

CAT. NO.	Vol. (ml)	Height (cm)	Bottom style	Internal packaging	Sale unit
CL1ARBEPSTS	1.2	4.02	Self Standing	bag / 50	case / 500
CL2ARBEPSTS	2.0	4.56	Self Standing	bag / 50	case / 500
CL2AREPSTS	2.0	4.45	Round bottom	bag / 50	case / 500
CL3ARBEPSTS	3.0	6.92	Self Standing	bag / 50	case / 500
CL4ARBEPSTS	4.0	7.36	Self Standing	bag / 50	case / 500
CL5ARBEPSTS	5.0	8.76	Self Standing	bag / 50	case / 500

External cap - packaging in bulk

CAT. NO.	Vol. (ml)	Height (cm)	Bottom style	Internal packaging	Sale unit
CL1ARBEPSTS/B	1.2	4.02	Self Standing	bag / 50	carton / 4500
CL2ARBEPSTS/B	2.0	4.56	Self Standing	bag / 50	carton / 4000
CL2AREPSTS/B	2.0	4.45	Round bottom	bag / 50	carton / 4000
CL3ARBEPSTS/B	3.0	6.92	Self Standing	bag / 50	carton / 2500
CL4ARBEPSTS/B	4.0	7.36	Self Standing	bag / 50	carton / 2500
CL5ARBEPSTS/B	5.0	8.76	Self Standing	bag / 50	carton / 2000

6 different colors caps available. To order add ending as follows:
/AZ (blue) /BI(white) /G(yellow) /RO(red) /V(green) /VI(violet)



For automatic capper/decapper

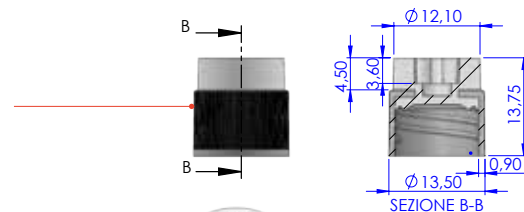
Star shaped top cavity is engineered for use with automatic decapping equipment (see page 19)



No contamination risk

Our innovative screw caps eliminate leakage and contamination.

Both internal and external screw caps are co-molded with a thermoplastic elastomer (TPV) layer and are 95kPa certified to provide a 100% leak-proof seal. This proprietary molding process eliminates the risk of contamination associated with brands that use separate o-rings.



Insert for color coding

Color coded inserts are available to fit both internal and external caps for quick sample identification (see page 22)



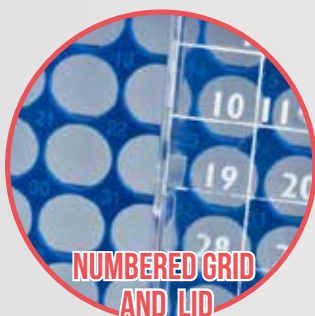
Cryoboxes in polycarbonate



Boxes in polycarbonate for CryoGen® Tubes storage. Different models are available to accommodate either 25, 81 or 100 CryoGen® tubes. These durable cryogenic storage boxes are designed to be used at temperatures between -196°C and +121°C and are autoclavable at 120°C, for 20 minutes.

- ▶ For storing at temperatures as low as -196 °C (vapor phase of liquid nitrogen)
- ▶ Autoclavable at 121 °C for 20 minutes

- ▶ Numerical grid printed on the lid
- ▶ Frosted area on both lid and bottom for an easy writing
- ▶ Colored grid
- ▶ For storing at temperatures as low as -196 °C (vapor phase of liquid nitrogen)
- ▶ Autoclavable at 121 °C for 20 minutes
- ▶ Vial Picker: Removal of vials facilitated by a vial picker. Suitable for both internal and external Cryogen Tubes screw cap. Supplied with each pack of storage boxes
- ▶ In polycarbonate



NUMBERED GRID
AND LID



WRITING FROSTED
AREA

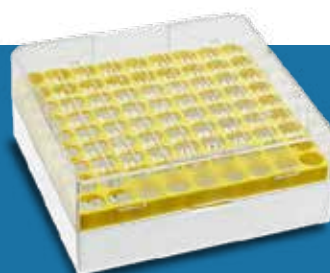


VIAL
PICKER

CLEARLine®
Accessories



25 Places



81 Places low

CryoGen® Box 25 pad printed grid lid for 1 - 2 ml tubes, external and internal cap

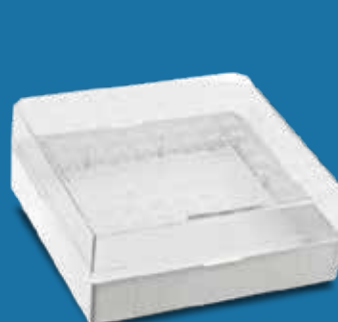
CAT. NO.	Grid Color	Dimensions (mm)	Internal packaging	Sale unit
BSM58025B/AZ	light blue	76x76x52	6 packs of 8 units	case / 48
BSM58025B/RO	red	76x76x52	6 packs of 8 units	case / 48
BSM58025B/V	green	76x76x52	6 packs of 8 units	case / 48
BSM58025B/G	yellow	76x76x52	6 packs of 8 units	case / 48

CryoGen® Box 81 LOW pad printed grid lid for 1 - 2 ml tubes, external and internal cap

CAT. NO.	Grid Color	Dimensions (mm)	Internal packaging	Sale unit
BSM58061B/AZ	light blue	132x132x52	8 packs of 5 units	case / 40
BSM58061B/RO	red	132x132x52	8 packs of 5 units	case / 40
BSM58061B/V	green	132x132x52	8 packs of 5 units	case / 40
BSM58061B/G	yellow	132x132x52	8 packs of 5 units	case / 40



81 Places high



100 Places

CryoGen® Box 81 HIGH pad printed grid lid for 3 - 4 - 5 ml tubes external cap, and 5 ml internal cap

CAT. NO.	Grid Color	Dimensions (mm)	Internal packaging	Sale unit
BSM58071B/AZ	light blue	132x132x94	8 packs of 4 units	case / 32
BSM58071B/RO	red	132x132x94	8 packs of 4 units	case / 32
BSM58071B/V	green	132x132x94	8 packs of 4 units	case / 32
BSM58071B/G	yellow	132x132x94	8 packs of 4 units	case / 32

CryoGen® Box 100 pad printed grid lid for 1 - 2 ml tubes, internal cap

CAT. NO.	Color	Dimensions (mm)	Internal packaging	Sale unit
BSM58100/B	white	132x132x52	8 packs of 5 units	case / 40
BSM58100/AZ	light blue	132x132x52	8 packs of 5 units	case / 40
BSM58100/RO	red	132x132x52	8 packs of 5 units	case / 40
BSM58100/V	green	132x132x52	8 packs of 5 units	case / 40
BSM58100/G	yellow	132x132x52	8 packs of 5 units	case / 40

1D Cryoboxes in polycarbonate



- ▶ Linear Barcode 'code 128' lasered on the rack side with human reading decoding
- ▶ Numerical grid serigraphed both on lid and bottom for an easy positioning
- ▶ Frosted area on both lid and bottom for an easy writing
- ▶ Colored grid
- ▶ For storing at temperatures as low as -196 °C (vapor phase of liquid nitrogen)
- ▶ Autoclavable at 121 °C for 20 minutes
- ▶ Vial Picker: Removal of vials facilitated by a vial picker. Suitable for both internal and external Cryogen Tubes screw cap. Supplied with each pack of storage boxes
- ▶ In polycarbonate



CLEARLine®
Accessories



25 Places

CryoGen® Box 25 1D barcoded for 1 - 2 ml tubes, external and internal cap

CAT. NO.	Grid Color	Dimensions (mm)	Internal packaging	Sale unit
BSM58025B1D/AZ	light blue	76x76x52	6 packs of 8 units	case / 48
BSM58025B1D/RO	red	76x76x52	6 packs of 8 units	case / 48
BSM58025B1D/V	green	76x76x52	6 packs of 8 units	case / 48
BSM58025B1D/G	yellow	76x76x52	6 packs of 8 units	case / 48



81 Places low

CryoGen® Box 81 LOW 1D barcoded for 1 - 2 ml tubes, external and internal cap

CAT. NO.	Grid Color	Dimensions (mm)	Internal packaging	Sale unit
BSM58061B1D/AZ	light blue	132x132x52	8 packs of 5 units	case / 40
BSM58061B1D/RO	red	132x132x52	8 packs of 5 units	case / 40
BSM58061B1D/V	green	132x132x52	8 packs of 5 units	case / 40
BSM58061B1D/G	yellow	132x132x52	8 packs of 5 units	case / 40



81 Places high

CryoGen® Box 81 HIGH 1D barcoded for 3 - 4 - 5 ml tubes external cap and 5 ml internal cap

CAT. NO.	Grid Color	Dimensions (mm)	Internal packaging	Sale unit
BSM58071B1D/AZ	light blue	132x132x94	8 packs of 4 units	case/ 32
BSM58071B1D/RO	red	132x132x94	8 packs of 4 units	case/ 32
BSM58071B1D/V	green	132x132x94	8 packs of 4 units	case/ 32
BSM58071B1D/G	yellow	132x132x94	8 packs of 4 units	case/ 32



100 Places

CryoGen® Box 100 1D barcoded for 1 - 2 ml tubes, internal cap

CAT. NO.	Color	Dimensions (mm)	Internal packaging	Sale unit
BSM581001D/B	white	132x132x52	8 packs of 5 units	case / 40

2D CRYOLINE

CryoGen® Tubes / **2D** barcode



CLEARLine®
"Be cool, be safe, be CLEARLine"



DNase
RNase

Human
DNA

PCR
Inhibitors

ATP

Pyrogen

Beta Rays Sterile
SAL 10⁶
EN ISO 11137

MEDICAL
GRADE

Color coded inserts are available to fit both internal and external caps for quick sample identification

Innovative internal and external screw caps to provide a 100% leak-proof seal

Produced from medical grade raw materials that will not discolor after re-sterilizing

Printed graduations for accurate measurements

White writing surface for specimen identification

Datamatrix Code inserted in the bottom, sequential and corresponding to the "Code 128" on the tube body

The 2D code is automatically generated from the linear barcode during the manufacturing process
Permanent laser etching system

Strict quality control, every tube is checked to ensure they meet our exacting standards of reading

The insert is secured in place by the use of ultrasound to weld it into place

Star shaped top cavity is engineered for use with automatic decapping equipment

Slim profile external caps ensure better fit in standard racks and boxes

Vials and caps are **autoclavable**

Standard code 128 barcode unique and unrepeatable on each vial includes human readable characters printed in both left and right hand orientation for easy readability by all users

Locking Base features prevents tubes rotating within the rack/workstation during capping and decapping.

The base of the tube is provided with **channels of evacuation** of the cryogenic liquid that could possibly be trapped between the base of the tube and the 2D pad.

- ▶ Human DNA, DNase, RNase, Pyrogen, ATP, PCR inhibitors free certified*
- ▶ Sterile SAL 10⁶ *
- ▶ CE-IVD marked *
- ▶ Certified IATA PI 650

- ▶ Working Temperature: suitable for storage from general cold storage refrigeration (+4°C) down to the vapor phase of liquid nitrogen
- ▶ Tubes in Polypropylene / Caps in Polyethylene and TPV

* Certificate of analysis and Certificate of validated Beta rays treatment are available for download on www.biosigma.com

CryoGen Tubes 2D Internal cap

Sterile, DNase, RNase, Human DNA, ATP, Pyrogen free



CryoGen Tubes 2D External cap

Sterile, DNase, RNase, Human DNA, ATP, Pyrogen free



<https://bit.ly/2JELQ3x>

Internal cap

CAT. NO.	Vol. (ml)	Height (cm)	Bottom style	Internal packaging	Sale unit
CL2ARBIPS2D	2.0	4.82	Self Standing	bag / 50	case / 500
CL2ARBIPS2D/B	2.0	4.82	Self Standing	bag / 50	carton / 4000
CL5ARBIPS2D	5.0	9.03	Self Standing	bag / 50	case / 500
CL5ARBIPS2D/B	5.0	9.03	Self Standing	bag / 50	carton / 2000

External cap

CAT. NO.	Vol. (ml)	Height (cm)	Bottom style	Internal packaging	Sale unit
CL2ARBEPS2D	2.0	4.56	Self Standing	bag / 50	case / 500
CL2ARBEPS2D/B	2.0	4.56	Self Standing	bag / 50	carton / 4000
CL5ARBEPS2D	5.0	8.76	Self Standing	bag / 50	case / 500
CL5ARBEPS2D/B	5.0	8.76	Self Standing	bag / 50	carton / 2000

2D Cryoboxes in polycarbonate 81 and 100 places



- ▶ Automatic identification of the box and of its positioning through 2D datamatrix code, on the box bottom
- ▶ Barcode "code 128" lasered on rack side.
- ▶ Numerical grid on lid
- ▶ Frosted writing area
- ▶ Colored grid
- ▶ For storing at temperatures as low as -196 °C (vapor phase of liquid nitrogen)
- ▶ Autoclavable at 121 °C for 20 minutes
- ▶ Vial Picker supplied with each inner pack
- ▶ White bottom
- ▶ In polycarbonate



CLEARLine®
Accessories



81 Places 2D low



81 Places 2D high

Box 81 LOW pad printed grid lid 2D for 2 ml tubes

CAT. NO.	Grid Color	Dimensions (mm)	Internal packaging	Sale unit
BSM580612D/AZ	light blue	132x132x52	8 packs of 5 units	case/ 40
BSM580612D/RO	red	132x132x52	8 packs of 5 units	case/ 40
BSM580612D/V	green	132x132x52	8 packs of 5 units	case/ 40
BSM580612D/G	yellow	132x132x52	8 packs of 5 units	case/ 40

Box 81 HIGH pad printed grid lid 2D for 5 ml tubes

CAT. NO.	Grid Color	Dimensions (mm)	Internal packaging	Sale unit
BSM580712D/AZ	light blue	132x132x94	8 packs of 4 units	case / 32
BSM580712D/RO	red	132x132x94	8 packs of 4 units	case / 32
BSM580712D/V	green	132x132x94	8 packs of 4 units	case / 32
BSM580712D/G	yellow	132x132x94	8 packs of 4 units	case / 32



100 Places 2D low



100 Places 2D high

Box 100 LOW pad printed grid lid 2D for 2 ml tubes, internal cap

CAT. NO.	Color	Dimensions (mm)	Internal packaging	Sale unit
BSM581002D/B	white	132x132x52	8 packs of 5 units	case / 40

Box 100 HIGH pad printed grid lid 2D for 5 ml tubes, internal cap

CAT. NO.	Color	Dimensions (mm)	Internal packaging	Sale unit
BSM581052D/B	white	132x132x94	8 packs of 4 units	case / 32

48 Places SBS rack for 2 and 5 ml 2D CryoGen® tubes



Storage cryo rack 48 places with a footprint that corresponds to ANSI-standard

- ▶ Stackable
- ▶ Rack bottom with scanning windows for the Datamatrix of the contained cryotubes
- ▶ In Polypropylene
- ▶ Linear barcode
- ▶ Alphanumeric bottom
- ▶ Available for both 2 and 5 ml 2D CryoGen® Tubes
- ▶ Suitable for automatic capper-decapper
- ▶ Suitable for Cube Rack Reader



**SCREWING WITH
A SINGLE HAND**



**FOR CUBE RACK
READER**



**ENGRAVED
LID**



**SCANNING WINDOW AND
2D DATAMATRIX ON THE
BOTTOM**



**LINEAR BARCODE
ON RACK SIDE**



**ENGRAVED
LETTERS**

ALPHANUMERIC BOTTOM

**SERIGRAPHE
LETTERS AND
NUMBERS**



**SERIGRAPHE
NUMBERS**

**ALPHANUMERIC
BOTTOM**

**ENGRAVED
LETTERS**

**LINEAR BARCODE
ON RACK SIDE**

CLEARLine®
Accessories



48 PLACE ANSI/SLAS Racks (rakcs only)

CAT. NO.	Description	Sale unit
BSM58048H	Rack 48 places for 5 ml int/ext CryoGen® tubes 2D	10
BSM58048L	Rack 48 places for 2 ml int/ext CryoGen® tubes 2D	20

48 PLACE ANSI/SLAS Racks Pre-Racked with Tubes

CAT. NO.	Description	Tubes	Sale unit
BSM58048HI	Rack 48 places filled with 5 ml internal CryoGen® tubes 2D	5 ml	10
BSM58048HE	Rack 48 places filled with 5 ml external CryoGen® tubes 2D	5 ml	10
BSM58048LI	Rack 48 places filled with 2 ml internal CryoGen® tubes 2D	2 ml	20
BSM58048LE	Rack 48 places filled with 2 ml external CryoGen® tubes 2D	2 ml	20

SINGLE SCREW DECAPPERS for CryoGen® Tubes

Electronic Decapper/Recapper and Tube Picker

Versatile and easy to use tool specifically designed to decap and recap CryoGen® Tubes 2D barcode tubes and enable the user to individually pick and place tubes from CryoGen® Boxes 2D and ANSI/SLAS racks

FEATURES

- ▶ Rapid decapping and capping
- ▶ Very simple to use
- ▶ USB Battery charger
- ▶ Closing intensity adjustment
- ▶ Light weight

Package Contents

- ▶ Electronic Decapper/Recapper
- ▶ USB cable
- ▶ USB charger

CLEARLine®
Accessories



CAT. NO.	Description	Internal packaging	Sale unit
BSM580481	Single screw decapper	1	1

Fully automatic capper / decapper for 48 places SBS ANSI/SLAS rack & 2ml CryoGen® Tubes

CLEARLine®
Accessories

Digital automatic Decapper/Recapper

The new Biosigma decapper provides a simple decapping and capping solution for CryoGen® Tubes 2D in a SBS ANSI/SLAS format rack 48 places. It offers a time saving solution that reduces the risks of repetitive strain injuries and potential sample cross contamination. Decapping and capping can be performed on 2ml CryoGen® Tubes.

FEATURES

- ▶ Rapid decapping and capping
- ▶ Very simple to use
- ▶ Reduce risk of cross contamination
- ▶ Reduce risk of repetitive strain injury
- ▶ Recapping process ensures that tubes are tightly capped-no loose caps after operation

Simple and Direct

Rather than using messy mechanical means the decapper digitally measures the force applied to cap each tube. This means it is quieter than other 48 well decappers and also does not have clutches that can wear out.

Easy to Use

With no extra unneeded controls, there are two buttons. One to cap and one to decap; the decapper recognises when a rack has caps and illuminates the decap button and vice versa.



CAT. NO.	Description	Internal packaging	Sale unit
BSM58048	Fully automatic capper / decapper	1	1

Scanner 2D

DataPaq™ Cube Rack Reader

A compact, versatile, quick and robust scanner with minimal cabling. The DataPaq™ Cube Rack Reader is a 2D datamatrix tube camera reader with a scan & decode time of 1-2 seconds on a 'normal' computer.

The Cube can read all racks on the market including 2D Cryoboxes and SBS racks; even 384 racks.

The DataPaq™ Cube 2D scanner offers easy, out-of-the-box set up and is delivered pre-calibrated and ready to scan.

This instrument can scan all racks in the SBS format, regardless of the configuration or number of tubes, and by a quick and easy change of mask (included as standard) it can also scan all 2D Cryoboxes formats.

Our new automatic rack type detection feature means that you no longer have to configure the Cube for all rack types. Simply place your rack on the scanning window and the software will work out what type of rack it is and run the scan - easy!

Free DataPaq™ software upgrades for life.



- ▶ Compatible with 24, 48, 96, 240, 384 SBS racks
- ▶ Compatible with 81 and 100 2D Cryoboxes
- ▶ Smallest 'scan all' scanner on the market
- ▶ Camera based instrument resulting in rapid imaging and decoding
- ▶ Footprint ideal for benchtop and integration
- ▶ Minimal cabling
- ▶ All the exported information can be integrated into systems such as: Oracle, SQL, MySQL, Postgres, HSQL and many others.
- ▶ DataPaq™ software displays the results of the scan

DataPaq™ Cube Rack Reader

CAT. NO.	Description	Sale unit
ZTS-CUBE	DataPaq™ Cube Single Rack and Cryobox Scanner	1
ZTS-CUBE-80	DataPaq™ Cube Single Rack and Cryobox Scanner with Cryoprotection™	1
ZTS-1DR2-CUBE	Cube 1D Rack Code Scanner	1
ZTS-1DR2-CUBE-BRK	Replacement Bracket for Cube 1D Rack Scanner	1
ZTS-DPQ-317	Upgrade DataPaq Software for Brooks Acoustic Coded Tubes.	1

Manual scanner

Single Tube Reader 1D/2D

- ▶ XENON EXTREME PERFORMANCE (XP) 1950g
- ▶ Features the industry's fastest 1D/2D-imaging technology for highly responsive, reliable scanning
- ▶ Unique, ergonomic styling maximizes comfort and saves countertop space
- ▶ Large LED indicator provides effective visual operational feedback
- ▶ Easy plug&play installation on your PC
- ▶ Designed to withstand 2,000 impacts of 0.5m and 50 drops of 1.8m
- ▶ IP41 protection degree for water and dust
- ▶ USB cable included

CAT. NO.	Description	Sale unit
1950GHD-2-INT	Scanner USB + USB cable	1



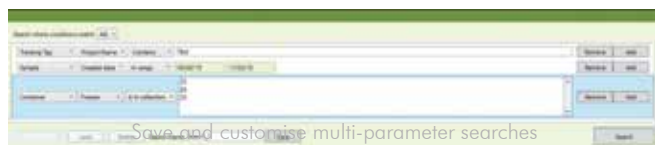


A sample management system optimised for your laboratory's needs

- ▶ Samples is a laboratory sample management tool designed to keep your sample storage inventory organised.
- ▶ Samples software includes a host of features designed to streamline your sample storage workflows and makes adding and searching sample information quick and simple.
- ▶ Its intuitive import tools allow integration with existing sample databases, while its range of sample entry options and fully editable set-up parameters means the system can be optimised for your laboratory or storage facility.
- ▶ We can even add custom features, developed by our programmers to your specifications, to ensure Samples provides the exact solution for your inventory management requirements.



Inventory View and Container View



Save and customise multi-parameter searches



EASY DATA INPUT

In addition to manual entry of individual samples using the intuitive user interface, Samples lets you easily import sample data from existing records in Excel spreadsheet or text file format. Our Import Wizard ensures your imported data is compatible, meaning adding legacy data couldn't be simpler. You can scan in samples quickly and easily using Ziath's DataPac™ barcode readers, and efficiently register any changes to your 2D storage racks and boxes.



CUSTOM DESCRIPTORS

Samples' customisable Tracking Tags and Sample Types allow you to associate fully-searchable data with your samples. Create an unlimited number of Tracking Tags to describe your samples using a variety of descriptor formats including free text, quantities, dates and even links to documents such as safety or regulatory datasheets. Our Sample Types labelling feature allows differentiation between, for example, samples in multiple laboratories, and each Sample Type can have its own set of Tracking Tags.



POWERFUL SEARCHING

Samples lets you easily switch between viewing graphical displays of container layouts or a list of all containers and samples. Our multi-parameter search tool allows you to combine search terms to locate specific samples using Tracking Tags and Sample Type entries, keywords, location or date records. You can even save regularly-used searches and customise them for future use. And with our archive function, you will never lose access to historical data, even when a container has been permanently removed from storage.

Samples software

CAT. NO.	Description	Sale unit
779944	Samples Software Fixed License (Single PC with multi-user)	1
ZTD-SPLS-FLT1	First Floating License (Server licence. Necessary for connect other clients with floating licence)	1
ZTD-SPLS-FLT	Samples Software Additional Floating License for one single clients	1

ACCESSORIES

Writing cap disks

- ▶ 6 colours available
- ▶ In medical grade raw material
- ▶ Wide surface for easy writing
- ▶ For both internal and external cap

CE IVD

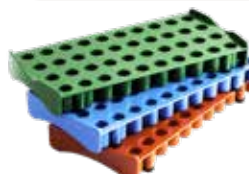
CLEARLine®
Accessories



Cap Disk for internal and external Cryogen Tubes screw caps.

CAT. NO.	Color	Internal packaging	Sale unit
CRY910TS/AZ	blue	1 / bag	bag / 1000
CRY910TS/RO	red	1 / bag	bag / 1000
CRY910TS/V	green	1 / bag	bag / 1000
CRY910TS/G	yellow	1 / bag	bag / 1000
CRY910TS/VI	violet	1 / bag	bag / 1000
CRY910TS/BI	white	1 / bag	bag / 1000

Workstation for CryoGen® Tubes



CLEARLine®
Accessories

Workstation for CryoGen® tubes, 40 holes, in polycarbonate, available in 3 colors, autoclavable. Useful for screwing and unscrewing the tube directly on the bench with a single hand, avoiding possible contamination.

- ▶ In polycarbonate
- ▶ 40 positions
- ▶ 3 colours available



CE IVD

Workstation for CryoGen® tubes, 40 holes

CAT. NO.	Color	Dimensions (mm)	Sale unit
BSM5810/AZ	blue	L 21.5 P 10.0 H 2.50	units / 5
BSM5810/RO	red	L 21.5 P 10.0 H 2.50	units / 5
BSM5810/V	green	L 21.5 P 10.0 H 2.50	units / 5

Cryo Markers

- ▶ 4 colours available
- ▶ Specially for writing on cryotubes, cryoboxes and supports for cryogenics
- ▶ Blue, red and black with extra-fine tip
- ▶ Green with standard tip



CAT. NO.	Description	Sale unit
028123	Pack of 4 cryo markers assorted colours (green, blue, red, black)	4
028124	Pack of 4 cryo markers black colour	4

Vial Picker for CryoGen® Tubes



- ▶ For an easy vial removal after freezing
- ▶ For both internal and external cap
- ▶ Supplied with cryoboxes inner packs

CLEARLine®
Accessories



CAT. NO.	Grid Color	Internal packaging	Sale unit
CRY920TS	blue	bag/100	case / 600

Cryoboxes in polypropylene

The specialty: boxes adjustable in height. The red cryo box shows the fixed position of 75 mm. The blue cryo box shows the variable lid position (rotated 90°) with the variable height from 50 mm to 75 mm.

- ▶ Polypropylene
- ▶ Dimensions: 133 x 133 mm, adjustable height: 50 mm or 75 mm
- ▶ Numerical coding
- ▶ Drain hole
- ▶ Autoclavable
- ▶ Resistant to temperatures of -90°C to +121°C
- ▶ Stackable

Variable height polypropylene Cryo Boxes

Capacity	6 x 6	7 x 7	8 x 8	9 x 9	10 x 10
Tubes (mm)	19	17	15	13	11,5
neutral	030131	030138	750207	750214	750221
yellow	030132	030139	750208	750215	750222
red	030133	750202	750209	750216	750223
green	030134	750203	750210	750217	750224
blue	030135	750204	750211	750218	750225
black	030136	750205	750212	750219	750226
assorted	030137	750206	750213	750220	750227
Sale unit	5	5	5	5	5



Cardboard Cryoboxes

- ▶ Supplied with the divider
- ▶ Dimensions: 133 x 133 x 50 mm
- ▶ Hold 0,5/1/ 2ml microtubes and 1/2 ml ClearLine® cyrotubes internal thread only (81 places boxes only)
- ▶ Temperature range : stable from -196 to 121 °C
- ▶ Suitable for liquid nitrogen storage
- ▶ Color white
- ▶ Lid with writing area



ClearLine white coated cardboard freezer boxes

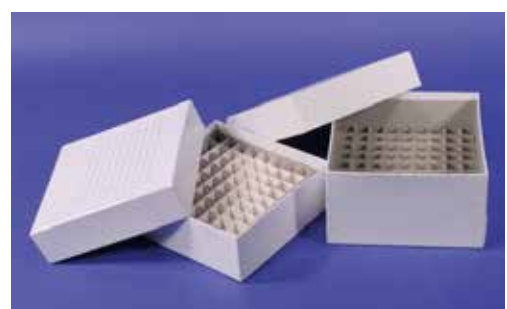
CAT. NO.	Grid	Sale unit
972015	81	1
972016	100	1

- ▶ White or coloured hydrophobic cardboard
- ▶ With labelling area on the lid
- ▶ Supplied with grids
- ▶ Mixed: pink, yellow, green, blue, turquoise
- ▶ Dimensions: 133 x 133 mm



White or coloured cardboard cryoboxes with writing area

CAT. NO.	Color	Height (mm)	Grid	Sale unit
010163	white	75	81	1
010164	white	75	100	1
010179	assorted	50	81	5
010181	assorted	50	100	5



- ▶ Covered in a watertight plastic film
- ▶ Grids assembled in the box
- ▶ For freezing up to -196 °C
- ▶ Colour white
- ▶ Dimensions 133x133 (mm)

Laminated cardboard boxes

CAT. NO.	Color	Height (mm)	Grid	Sale unit
010185	white	76	81	1
010186	white	76	100	1

Support rod for canisters

- ▶ Aluminium rod designed to contain 3 to 6 cryotubes depending on their height. Length: 28 cm.



CAT. NO.	Description	Sale unit
055030	Support rod	50

Cryoflex sheath

- ▶ Sheath for cryotubes, to be soldered to avoid any liquid nitrogen accidentally getting into the tube during total immersion in liquid nitrogen, preventing tube explosion. Length: 50 cm.



CAT. NO.	Description	Sale unit
055029	Cryoflex sheath	15

Cryogenic gloves

Protect yourself from extreme temperatures. Gloves made for very high or low temperatures, with an outer layer made of nylon and an interior made of a cotton - polyester complex protected by a polyfine film.

- ▶ Soft, comfortable, warm, even after prolonged exposure to cold
- ▶ Machine washable and dryable

5 finger glove in 4 lengths:

- ▶ Wrist: 30 cm
- ▶ Mid-forearm: 38 cm
- ▶ Elbow: 50 cm
- ▶ Shoulder: 68 cm

NB: Never immerse the glove directly in nitrogen liquid.

Characteristics of the standard model:

- ▶ Freezer at very low temperatures
- ▶ Cold room
- ▶ Dry ice handling

Characteristics of the impervious model:

- ▶ Applications in a liquid nitrogen atmosphere or environment
- ▶ Coolant bars
- ▶ Cryogenic grinding



STANDARD MODEL

	SMALL (S)	MEDIUM (M)	LARGE (L)	EXTRA LARGE (XL)	SMALL (S)	MEDIUM (M)	LARGE (L)	EXTRA LARGE (XL)	Sale unit
5 fingers 30 cm	035501	035502	035503	035504	035517	035518	035519	035520	1
5 fingers 38 cm	035505	035506	035507	035508	035521	035522	035523	035524	1
5 fingers 50 cm	035509	035510	035511	035512	035525	035526	035527	035528	1
5 fingers 68 cm	035513	035514	035515	035516	035529	035530	035531	035532	1

IMPERVIUS MODEL

- ▶ For use of material stored in liquid nitrogen or at low temperatures
- ▶ Very good insulation, thinner gloves offering excellent dexterity
- ▶ Synthetic fibre for improved flexibility
- ▶ Water resistant
- ▶ Coating "waterproof"
- ▶ With suspension ring
- ▶ EC marking

Cold protection gloves

	Gloves L. 37 cm	Gloves L. 50 cm	Gloves L. 60 cm	Sale unit
SMALL (S)	446658	446662	446670	1
MEDIUM (M)	446659	446663	446671	1
LARGE (L)	446660	446664	446672	1
EXTRA LARGE (XL)	446661	446665	446673	1



COOLING CONTAINERS

CoolCell containers

- ▶ CoolCell LX controlled-rate alcohol-free cell freezing container provides a highly reproducible -1°C/minute freezing rate when placed in a -80°C freezer.
- ▶ No alcohol or fluids required.
- ▶ The insulative outer housing and thermo-conductive solid state core ensure consistent heat removal to all vials throughout the freezing period.
- ▶ CoolCell containers are unbreakable, open easily when frozen, and are not cold to the touch when frozen - no "frosty" fingers.
- ▶ Numbered vial wells ensure an easy sample identification.
- ▶ Beveled junction between base and lid and exposed vial tops in the base allow for quick and safe removal of frozen vials so they can be placed into long-term storage.
- ▶ Holds 12 or 15 vials.
- ▶ Proven for use with stem cells, primary cells and cell lines.

CAT. NO.	Color	Tubes No.	Sale unit
830159	Purple	12 x 2ml	1
830105	Green	12 x 2ml	1
830106	Orange	12 x 2ml	1
830107	Pink	12 x 2ml	1
830108	Purple	15 x 5ml	1



Cryocooler

CRYOCOOLER suitable for 18 x 1-2ml tubes ø x h: 117 x 86 mm

- ▶ Container for cryopreservation and recovery, suitable for 18 x 1-2ml tubes
- ▶ Requires Isopropyl alcohol
- ▶ 1°C/min cooling rate
- ▶ ø x h: 117 x 86 mm
- ▶ Screw cap

CAT. NO.	Description	Dimensions ø x h mm	Sale unit
913081	Cryo Cooler	117 x 86	1



Freezing Rack

- ▶ Polycarbonate case filled with a non-toxic insulating gel
- ▶ To protect the reagents contained in

CAT. NO.	Body Color	Gel on the cover	Dim. (mm)	Capacity of Cryotube 1/2 ml, or Microtube 1.5/2 ml	Temperature/ Time	Sale unit
092391	Red	No	147 x 100 x 100	12	0 °C / 60 min.	1
092392	Yellow	No	147 x 100 x 100	12	-20 °C / 60 min.	1
092393	White	No	147 x 100 x 100	12	-70 °C / 45 min.	1
913077	Red	Yes	240 x 160 x 146	32	0 °C / 60 min.	1
913078	Yellow	Yes	240 x 160 x 146	32	-20 °C / 50 min.	1
913082	Yellow	Yes	240 x 160 x 146	1 PCR plate 96 tubes of 0.2 ml singles or strip	-20 °C / 60 min.	1





MICROCENTRIFUGE TUBES

For more details please visit:

<http://www.biosigma.com/microcentrifuge-tubes.html>

A wide range of microcentrifuge tubes, screw caps and snap caps made of high transparency and medical grade raw materials, with a multitude of applications like molecular biology, research and clinical chemistry. Ideal for freezer storage, boiling application, centrifugation and for most standard microcentrifuge rotors.

MICROCENTRIFUGE TUBES

MICROCENTRIFUGE TUBES WITH SCREW CAPS



Biosigma's microcentrifuge tubes are manufactured from medical-grade raw material to exceed the exacting standards demanded by researchers.

- ▶ 3 styles of caps to choose from and 6 sizes of conical bottom or self-standing tubes (0.5, 1.5 and 2ml)
- ▶ Withstand high speed centrifugation up to 16,400 rpm or 25.000xg and temperatures from -85°C to +121°C
- ▶ Autoclavable to 121°C. for 20 minutes
- ▶ Tubes made in medical polypropylene and cap in medical polyethylene
- ▶ Sterile SAL 10⁻⁶
- ▶ Certified DNase/RNase/Pyrogen free to satisfy the highest demands in several biotechnological applications

** Raw materials tested in according to "the United States Pharmacopoeia" (USP) and with a "Drug Master File" (DMF) at the FDA.



CL604/S CL606/S CL614/S CL616/S

Sterile microtube: 0.5 ml, o-ring cap

CAT. NO.	Height mm ±0.34	Bottom	O-Ring	Writing area	Collar	Int. pack	Sale unit
CL604/S	47.1	conical	X			bag / 500	case / 1000
CL606/S	48.5	conical	X		X	bag / 500	case / 1000
CL614/S	47.5	self standing	X			bag / 500	case / 1000
CL616/S	49.2	self standing	X		X	bag / 500	case / 1000



CL724/S CL726/S CL734/S CL736/S

Sterile microtube: 1.5 ml, o-ring cap

CAT. NO.	Height mm ±0.34	Bottom	O-Ring	Writing area	Collar	Int. pack	Sale unit
CL724/S	47.1	conical	X	X		bag / 500	case / 1000
CL726/S	48.2	conical	X	X	X	bag / 500	case / 1000
CL734/S	47.6	self standing	X	X		bag / 500	case / 1000
CL736/S	49.0	self standing	X	X	X	bag / 500	case / 1000



CL744/S CL746/S CL754/S CL754/AM CL756/S

Sterile microtube: 2.0 ml, o-ring cap

CAT. NO.	Color	Height mm ±0.34	Bottom	O-Ring	Writing area	Int. pack	Collar	Sale unit
CL744/S	neutral	47.2	conical	X	X	bag/500		case/1000
CL746/S	neutral	48.4	conical	X	X	bag/500	X	case/1000
CL754/S	neutral	48.6	self standing	X	X	bag/500		case/1000
CL754/AM*	amber	48.6	self standing	X	X	bag/1000		case/3000
CL754/SAM	amber	48.6	self standing	X	X	bag/500		case/1000
CL756/S	neutral	49.8	self standing	X	X	bag/500	X	case/1000

* non sterile



WHITE O-RING

CLEARLine®

"Be cool, be safe, be CLEARLine"



CL600 CL610 CL720 CL730 CL740 CL750

Tube only (non sterile)

CAT. NO.	Vol. ml	Height mm ± 0.34	Bottom	Writing area	Int. pack	Sale unit
CL600	0.5	45.2	conical		bag / 1000	case / 3000
CL610	0.5	45.8	self standing		bag / 1000	case / 3000
CL720	1.5	45.2	conical	X	bag / 1000	case / 3000
CL730	1.5	45.8	self standing	X	bag / 1000	case / 3000
CL740	2.0	45.4	conical	X	bag / 1000	case / 3000
CL750	2.0	46.8	self standing	X	bag / 1000	case / 3000

Screw cap for microtube (non sterile)

Color	Flat cap + O-Ring	Cap suitable for cap disk + O-Ring	Cap suitable for cap disk with collar + O-Ring
High-mm ± 0.21	6.8	8.2	8.2
Diameter-mm ± 0.23	13.2	13.2	13.2
neutral	CL810	CL811	CL812
light blue	CL810/AZ	CL811/AZ	CL812/AZ
white	CL810/BI	CL811/BI	CL812/BI
yellow	CL810/G	CL811/G	CL812/G
pink	CL810/RA	CL811/RA	CL812/RA
red	CL810/RO	CL811/RO	CL812/RO
green	CL810/V	CL811/V	CL812/V
Internal pack.	bag / 1000	bag / 1000	bag / 1000
External pack.	case / 3000	case / 3000	case / 3000

All microtubes can be diversified by using color code inserts, as follow:

CLEARLine®
Accessories



Cap disk

CAT. NO.	Color	Internal packaging	Sale unit
BSM910/AZ	light blue	bag / 1000	case / 1000
BSM910/RO	red	bag / 1000	case / 1000
BSM910/V	green	bag / 1000	case / 1000
BSM910/G	yellow	bag / 1000	case / 1000
BSM910/RA	pink	bag / 1000	case / 1000
BSM910/BI	white	bag / 1000	case / 1000

MICROCENTRIFUGE TUBES

CLEARLock™ MICROTUBES IN PP WITH SECURE LOCKING SYSTEM

CLEARLock™ The best protection ever for your samples!



CLEARLock™ microtubes combine the security of a screw cap tube with the ease-of-use of a snap cap tube. They assure supreme protection to your samples by providing superior security during centrifugation, a precise sealing preventing evaporation, essential features during lab procedures.

CLEARLock™ microtubes have been specially studied and designed to withstand up to 30,000 xg during centrifugation without any rupture and to preserve the sample integrity.

The hinged lid prevents any unintentional opening during use especially when working with hazardous/precious samples or incubation. The precise sealing avoid also evaporation during long-term storage.

Human DNA, DNase, RNase, Pyrogen, ATP, PCR inhibitors free, each production batch is inspected and certified by an independent laboratory.



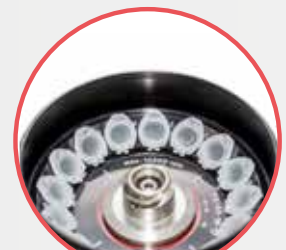
CLEARLINE-PACKAGING



RECLOSABLE-ZIP BAG



HINGED-LID



HIGH SPEED CENTRIFUGATION

- ▶ Hinged lid prevents any unintentional opening during use
- ▶ Precise lid sealing avoids evaporation during long-term storage
- ▶ Pierceable writing cap
- ▶ Optimal transparency
- ▶ Centrifuged at:
0,5ml - 1,5ml - 2,0ml 17,500 rpm - 30,000 x g
- ▶ Temperature of use: -80°C + 100°C
- ▶ Autoclavable open at +121°C for 20 minutes

- ▶ Zip bags, re-closable
- ▶ Graduated with writing area
- ▶ Particularly suitable for application in PCR and other applications in molecular biology
- ▶ Human DNA, DNase, RNase, Pyrogen, ATP, PCR inhibitors free certified*
- ▶ CE-IVD marked *

* Certificate of analysis available for download on www.biosigma.com

CLEARLock™ 0.5, 1.5, 2.0 ml microtubes in PP with secure locking system



Microtube in PP with locking system

CAT. NO.	Color	Volume (ml)	Internal packaging	Sale unit
CL05.001.0500	neutral	0.5	bag/500	500
CL15.002.0500	neutral	1.5	bag/500	1000
CL20.002.0500	neutral	2.0	bag/500	1000

Microtube in PP with locking system STERILE

CAT. NO.	Color	Volume (ml)	Internal packaging	Sale unit
CL05.050.0001S	neutral	0.5	single bag	50
CL05.005.0100S	neutral	0.5	bag/100	500
CL15.100.0001S	neutral	1.5	single bag	100
CL15.004.0050S	neutral	1.5	bag/50	200
CL20.100.0001S	neutral	2.0	single bag	100
CL20.004.0050S	neutral	2.0	bag/50	200

Microtube in PP with locking system, in bulk

CAT. NO.	Color	Volume (ml)	Internal packaging	Sale unit
CL05.010.1000B	neutral	0.5	bag/1000	10000
CL05.020.0500B	neutral	0.5	bag/500	10000
CL15.010.1000B	neutral	1.5	bag/1000	10000
CL15.020.0500B	neutral	1.5	bag/500	10000
CL20.008.1000B	neutral	2.0	bag/1000	8000
CL20.016.0500B	neutral	2.0	bag/500	8000

Microtube in PP with locking system, in bulk (not CLEARLine certified)

CAT. NO.	Color	Volume (ml)	Internal packaging	Sale unit
BSA05.010.1000	neutral	0.5	bag/1000	10000
BSA05.020.0500	neutral	0.5	bag/500	10000
BSA15.010.1000	neutral	1.5	bag/1000	10000
BSA15.020.0500	neutral	1.5	bag/500	10000
BSA20.008.1000	neutral	2.0	bag/1000	8000
BSA20.016.0500	neutral	2.0	bag/500	8000

MICROCENTRIFUGE TUBES

CLEARLock™ 5ml microtubes in PP with secure locking system

5 ML CLEAR LOCK™ microtubes are designed for samples too large for standard microcentrifuge tubes (1.5ml or 2.0ml) but in the meantime too small for 15 ml centrifuge tube. They ensure a contamination-free pipetting and they are the best choice when working with medium-sized sample volumes. In many applications it may replace the 15 ml test tubes, reducing the waste plastic, storage space needed and transport costs.

Secure locking system with audible closing click an additional guarantee during lab procedures.

CLEARLine® guaranteed purity. Tests and certificates are performed by an external independent laboratory, available on request.

Centrifuged at: 14,200 rpm - 21,000 x g
Temperature of use: -80°C + 100°C
Autoclavable open at +121°C for 20 minutes

Same diameter and conical bottom shape as a 15 mL conical tube allow use in existing centrifuge rotors, adapter and racks.



Easy-to-open cap reduces operator's hand fatigue preserving the sample integrity. Pierceable writing cap.

Graduated with writing area.

Made from highly transparent, chemical resistant Medical Grade polypropylene for easy visibility of pellets. Non Cytotoxic - Non Hemolytic

It may be used in all applications that require heating. Use the tube clips at temperature above 80°C to prevent cap opening and consequent sample loss.

Microtube in PP with locking system

CAT. NO.	Color	Volume (ml)	Internal packaging	Sale unit
CL50.002.0100	neutral	5.0	bag/100	200



Microtube in PP with locking system, in bulk

CAT. NO.	Color	Volume (ml)	Internal packaging	Sale unit
CL50.006.0500B	neutral	5.0	bag/500	3000
CL50.030.0100B	neutral	5.0	bag/100	3000



Microtube in PP with locking system STERILE

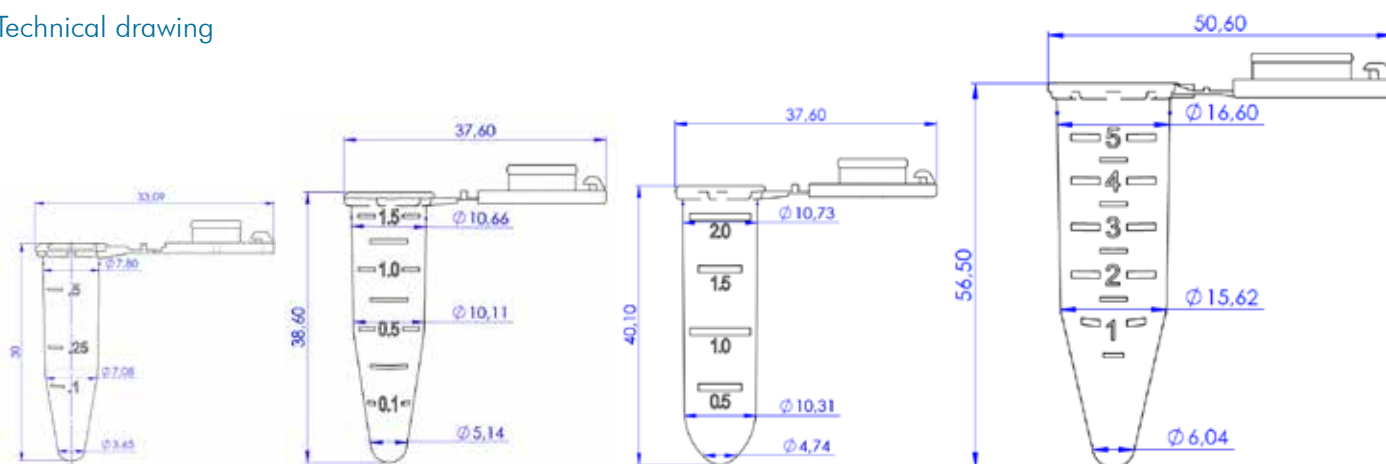
CAT. NO.	Color	Volume (ml)	Internal packaging	Sale unit
CL50.050.0001S	neutral	5.0	single bag	50
CL50.010.0020S	neutral	5.0	bag/20	200



Microtube in PP with locking system, in bulk (not CLEARLine certified)

CAT. NO.	Color	Volume (ml)	Internal packaging	Sale unit
BSA50.006.0500	neutral	5.0	bag/500	3000
BSA50.030.0100	neutral	5.0	bag/100	3000

Technical drawing



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MICROCENTRIFUGE TUBES

5 mL CENTRIFUGE TUBES SCREW CAP

5mL tubes take all of the conveniences of standard 15mL conical tubes and scale them down for space efficiency and decreased natural resource consumption. Usable from -86°C to 110°C, these tubes are a valuable resource for boiling and for sample preservation at very low temperatures.



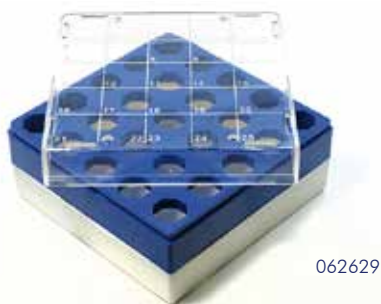
CAT.NO	Description	Internal packaging	Sale unit
062627	5 mL centrifuge tube - non sterile, in bulk, screw caps aside, 16x64mm	100/bag	500/case
062628	5 mL centrifuge tube - sterile, screw caps attached, 10 racks. RNase, DNase & pyrogen free	50/rack	500/case

ACCESSORIES FOR 5mL TUBES

Cryobox in polycarbonate

Polycarbonate freezer box for 5ml tubes

- ▶ Suitable for -190 °C
- ▶ 13,33 x 13,33 x 6,99 cm
- ▶ 25x5ml tubes



Tube clip for CLEARLock™ 5 mL microtube

Tube clip for CLEARLock™ 5ml microtube in polypropylene with secure locking system. Use the tube clip at temperature above 80 °C to prevent cap opening and consequent sample loss



CAT.NO	Description	Sale unit
062629	Polycarbonate freezer box for 5ml microtubes	5

CAT.NO	Description	Sale unit
933015	Tube clip for CLEARLock™ 5ml microtubes in PP with secure locking system	10

MICROCENTRIFUGE TUBES

5 mL acrylic tube rack

- ▶ In crystal clear acrylic
- ▶ For 20 x 5 mL tubes
- ▶ Supported at two levels in the rack



CAT.NO	Description	Sale unit
141397	Acrylic rack for 20 x 5 mL tube	1

5ml / 15 mL tube rack

- ▶ 2 moving hinged upper shelves able to hold 5 mL or 15 mL tubes (up to 16 mm in diameter)
- ▶ Tear drop shaped openings for a better retention of tubes
- ▶ Printed grid of both sides of the upper shelves
- ▶ Dimensions : 30,9 x 10,7 x 7,7 cm
- ▶ Autoclavable at 121 °C for 15 min.



CAT.NO	Description	Color	Sale unit
320532	5ml / 15 mL tube rack, 40 wells	purple / white	1
320533	5ml / 15 mL tube rack, 40 wells	green / blue	1

MyFuge™ 5 microcentrifuge

The myFuge™ 5 microcentrifuge includes a four position rotor for compatibility with a variety of 5ml test tubes, including 5ml snap cap centrifuge tubes. In addition, this combination rotor has four additional slots for centrifuging standard microtubes (1.5/2.0ml). Simply close the lid and the centrifuge will quickly accelerate to reach the fixed speed of 5,500 rpm. Open the lid, and the rotor decelerates to a stop for removing samples.

The 5ml rotor position accepts 5ml centrifuge tubes (snap cap) directly. While 5ml blood and culture tubes (12x75mm) and cryovials are also accepted with the included adapters. The microtube positions are designed to accept 0.5 and 0.2ml tubes with the use of optional adapters.

- ▶ For quick spin downs of 5 mL and 1.5/2 mL tubes
- ▶ Includes adapters for 12 x 75 mm tubes
- ▶ Starts and stops with closing/opening of the lid
- ▶ Capacity : 4 x 5 mL tubes and 4 x 1.5/2 mL tubes



Microcentrifuge

CAT.NO	Description	Sale unit
062586	MyFuge 5 microcentrifuge	1

Specifications

Speed	5,500rpm
Max. RCF	2,000xg
Rotor	4 x 5ml tubes
Capacity	4 x 1.5/2.0 ml
Power	115V 50Hz or 230V, 60Hz
Dimensions [DxWxH]	14 x 20 x 14 cm
Weight	1 Kg

Adapters

CAT.NO	Description	Sale unit
060974	Adapter for 0.5 mL tubes	6
060975	Adapter for 0.2 mL tubes	6
062589	Adapter for 0.5 mL and 2 mL cryovials and 1.5 - 2 mL HPLC vials	4

ADAPTERS FOR OTHER MICROCENTRIFUGES

Adapters for 5 mL tubes

For 1 CLEARLock™ 5 mL. Usable on centrifuges with rotors for conical 15 mL tubes.



CAT.NO	Description	Sale unit
933023	For 1 CLEARLock™ 5 mL. Usable on centrifuges with rotors for conical 15 mL tubes	8

Adapters for 5 mL tubes

For 1 CLEARLock™ 5.0 mL. Usable on rotor FA-45-6-30.



CAT.NO	Description	Sale unit
933022	For 1 CLEARLock™ 5.0 mL. Usable on rotor FA-45-6-30	2

MICROCENTRIFUGE TUBES

MICROCENTRIFUGE TUBES WITH SNAP CAPS

Microtubes in PP 0.5, 1.5 and 2.0 ml **CLEARLine**



CLEARLine®
"Be cool, be safe, be CLEARLine"



Microtube in polypropylene 1.5ml and 2.0ml, graduated, usable on EPPENDORF®. ClearLine

- ▶ Flat cap adapted for easy writing
- ▶ Centrifugable up to 25,000 x g
- ▶ In transparent polypropylene
- ▶ Evident graduation
- ▶ Autoclavable at 121°C (for 20 minute)
- ▶ DNase/RNase, Human DNA and Pyrogen free



CLEARLINE-PACKAGING



RECLOSABLE-ZIP'BAG



WRITING-CAP

AMBER VERSIONS



CL026

CL022

CL0269

Microtube in PP 0.5, 1.5 and 2.0 ml ClearLine

CAT.NO	Color	Volume (ml)	Internal packaging	Sale unit
CL026	neutral	0.5	bag/500	case/2000
CL026/AM	amber	0.5	bag/500	case/2000
CL022	neutral	1.5	bag/500	case/1000
CL022/AM	amber	1.5	bag/500	case/1000
CL0269	neutral	2.0	bag/500	case/1000
CL0269/AM	amber	2.0	bag/500	case/1000

Microtubes in PP 0.5, 1.5 and 2.0 ml



Microtube in polypropylene 0.5, 1.5ml and 2.0ml, graduated, usable on EPPENDORF®. With or without cap

- ▶ Flat cap adapted for easy writing
- ▶ Centrifugable up to 25,000 x g
- ▶ In transparent polypropylene
- ▶ Evident graduation
- ▶ Autoclavable at 121°C (for 20 minute)



BSA026

BSA021

BSA022

BSA0269

BSA022/BLU

BSA022/G

BSA022/V

BSA022/RA

Microtube in PP 0.5, 1.5 and 2.0 ml, with or without cap

CAT.NO	Color	Vol. (ml)	Dimension (cm)	with cap	Internal packaging	Sale unit
BSA026	neutral	0.5	H 3.10 Ø 0.78	X	bag/1000	case/10000
BSA026/AM	amber	0.5	H 3.10 Ø 0.78	X	bag/1000	case/10000
BSA021	neutral	1.5	H 4.10 Ø 1.08		bag/1000	case/10000
BSA022	neutral	1.5	H 4.10 Ø 1.08	X	bag/500	case/8000
BSA022/AM	amber	1.5	H 4.10 Ø 1.08	X	bag/500	case/8000
BSA022/BLU	blue	1.5	H 4.10 Ø 1.08	X	bag/1000	case/10000
BSA022/G	yellow	1.5	H 4.10 Ø 1.08	X	bag/1000	case/10000
BSA022/RA	pink	1.5	H 4.10 Ø 1.08	X	bag/1000	case/10000
BSA022/V	green	1.5	H 4.10 Ø 1.08	X	bag/1000	case/10000
BSA0269	neutral	2.0	H 4.20 Ø 1.08	X	bag/1000	case/8000
BSA0269/AM	amber	2.0	H 4.20 Ø 1.08	X	bag/1000	case/8000

MICROCENTRIFUGE TUBES

RACKS*

4-Way Racks

Polypropylene rack autoclavable to 121°C, arranged on 4 levels

- ▶ Lowest level: 12 holes for 0.2 ml microtubes
- ▶ Second level: 14 holes for 0.5 ml microtubes
- ▶ Third level: 12 holes for 1.5 and 2 ml microtubes
- ▶ Top level: The last line of holes (top level) is also a workstation for microtubes that can be opened and closed just using one hand. Thanks to the locking system the tubes can be securely locked and do not turn

CLEARLine®
Accessories



CAT. NO.	Grid Color	Dimensions cm	Sale unit
BSM5827/AZ	light blue	L 18.5 P 12.0 H 5.50	case / 8
BSM5827/RO	red	L 18.5 P 12.0 H 5.50	case / 8
BSM5827/V	green	L 18.5 P 12.0 H 5.50	case / 8

Racks for 100 tubes

Polypropylene rack for microtube from 1.5 to 2 ml.

- ▶ Supplied Flat (to be fitted)
- ▶ Stackable
- ▶ Marking surface on both sides
- ▶ Autoclavable
- ▶ Alphanumeric printing on the tray
- ▶ Colors available: white, blue, yellow, red
- ▶ Dimensions: 110 x 263 x 45 mm



CAT. NO.	Grid Color	Dimensions cm	Sale unit
391070	white	110 x 263 x 45	1
391071	blue	110 x 263 x 45	1
391072	yellow	110 x 263 x 45	1
391073	red	110 x 263 x 45	1

Racks for 80 microtubes

Rigid rack for 80 microtubes 1.5 mL or 2 mL. L x w x h: 272 x 65 x 27 mm.

- ▶ Alphanumeric referencing
- ▶ Side handles
- ▶ Can be used from -90 °C to 121 °C (autoclavable)
- ▶ Economical
- ▶ Numerous colours
- ▶ Numerous accessories: storage box with lid, storage shelf

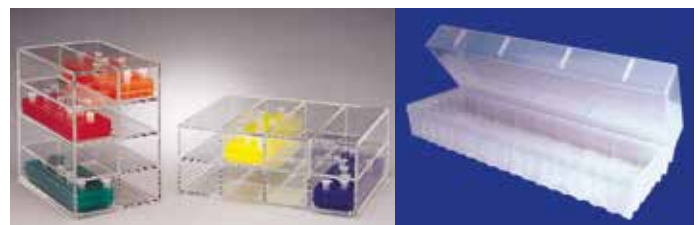
Rack standard colours		Rack fluorescent colours	
Color	CAT. NO.	Color	CAT. NO.
	840515	fluo yellow	840523
yellow	840519	fluo orange	840524
orange	840520	fluo pink	840525
red	840518	fluo blue	840526
violet	840521	fluo green	840527
blue	840516	-	-
green	840530	-	-
black	840522	-	-
assorted	840528	assorted	840529
Sale unit	5		5

Storage box

Intended for individual storage of a loaded rack. Can be stacked, guarantees protection against contamination, formation of frost. Optimizes the storage space. Translucent lid with integrated hinge. Made from autoclavable polypropylene.

CAT. NO.	Description	Sale unit
045464	Storage box for rack of 80 microtubes natural colour	1

*For other racks see "Test tubes, stoppers, racks" on page 85



Acrylic shelves

The transparent acrylic shelves enable the racks to be stored and handled without stacking them. 12 tubes ø 25 mm

- ▶ Horizontal model:
8 cases for 8 racks; L x w x h: 310 x 236 x 122 mm.
- ▶ Vertical model:
8 cases for 8 racks; L x w x h: 157 x 236 x 234 mm.

CAT. NO.	Description	Sale unit
037579	Horizontal shelf for 8 racks of 80 microtubes	1
037580	Vertical shelf for 8 racks of 80 microtubes	1



CELL CULTURE

For more details please visit:

<http://www.biosigma.com/cell-culture.html>

A wide choice of cell culture ware products, spanning a variety of formats, sizes and surfaces. Our portfolio provides a range of essential cell culture consumables like as flasks, plates, centrifuge tubes to advance researchers' work with complete confidences

CENTRIFUGE TUBES

CLEARLine® Centrifuge Tubes

CLEARLine centrifuge tubes are applicable in molecular biology as disposable laboratory consumables which are manufactured from high transparency polypropylene. Two types of volume are available to meet general need: 15 ml and 50 ml. A ring molded on inner surface of cap make an excellent seal to prevent leak of liquid. Marking area is printed in white to make tube easy for identification. Clearly graduation in black on the surface is helpful for users to calibrate. Preferably, 3 ml graduation molded on conical bottom improves the accuracy of centrifuge tube.

All CLEARLine centrifuge tubes are packaged in bags or racks sterile, RNase-free, DNase-free and Non-pyrogenic.

- ▶ 15ml and 50ml volume
- ▶ High transparency polypropylene
- ▶ Molded ring in the cap inner surface grants an excellent seal to prevent leak of liquid
- ▶ White writing area for easy identification
- ▶ Black graduation
- ▶ Conical and self-standing bottom
- ▶ Can be centrifuged up to 14,800 x g for 50 ml and 10,280 x g for 15 ml centrifuge tubes
- ▶ Sterilised at gamma rays SAL 10⁻⁶
- ▶ RNase-free, DNase-free and Non-pyrogenic
- ▶ Autoclavable at 121 °C during 20 min.

CLEARLine®
"Be cool, be safe, be CLEARLine"



Packaging information:

- ▶ Lot number is printed on packaging for tracking
- ▶ Heat-sealed bag, reusable zip bag
- ▶ PS rack, heat shrinking pack



CL482
15 ml



CL474
50 ml



CL477
50 ml



CL475
50 ml

CLEARLine Centrifuge tube-15-50 ml

CAT. NO.	Vol. (ml)	Dimensions (mm)	Centrifugation speed	Bottom style	Raw Material	Rack	Certifications	Inner Bag	Sale unit
CL474	50	116 x 28	12000 r/min; 14800 x g	Conical	polypropylene		RNase-free DNase-free Non-pyrogenic Sterile	25	500
CL475	50	116 x 28	12000 r/min; 14800 x g	Conical		X		25	500
CL477	50	118 x 28	12000 r/min; 14800 x g	Self standing				25	500
CL482	15	120 x 16	10000 r/min; 10280 x g	Conical				25	500
CL490	15	120 x 16	10000 r/min; 10280 x g	Conical		X		50	500

CELL CULTURE

Conical centrifuge tubes - large volume

- ▶ Sterile
- ▶ Integrated leak-proof cap
- ▶ Suitable from: - 80 to 120°C
- ▶ Conical bottom
- ▶ Volume: 225 ml
- ▶ Dimensions Ø x H: 60.2 x 137.5 mm



CAT. NO.	Description	Sale unit
978253	Centrifuge tube with conical bottom 225 ml	case / 48

EASYstrainer sterile cell strainers

- ▶ Available in three sizes: 40, 70 and 100 µm
- ▶ Fit all standard 50 ml tubes
- ▶ Secure aseptic handling thanks to the small lateral handle and plastic envelope
- ▶ Venting slot between the tube and the filter: prevents liquid being trapped or leaks
- ▶ Single packed in blister packs



CAT. NO.	Color	Sterile	Description	Sale unit
542040	green	Yes	EASYstrainer sterile cell strainer - mesh 40 µm	50
542070	blue	Yes	EASYstrainer sterile cell strainer - mesh 70 µm	50
542000	yellow	Yes	EASYstrainer sterile cell strainer - mesh 100 µm	50

CELL CULTURE FLASKS

- ▶ With vented screw cap
- ▶ Virgin polystyrene flask
- ▶ Easy to read volume scale
- ▶ Easy to stack
- ▶ Packaged in "peel-off" bags
- ▶ Treated for cell cultures
- ▶ Sterilized by gamma irradiation
- ▶ Certified as being RNase and DNase free
- ▶ Certified as having an endotoxin level of < 0.5 EU/ml
- ▶ Certificates available upon request
- ▶ Batch number and expiry date printed on every flask
- ▶ Model with filter cap: hydrophobic membrane prevents passage of bacteria, spores and particles larger than 0.2 µm



CAT. NO.	Volume (ml)	Surface (cm²)	Cap Style	Sterile	Units / Bag	Sale unit
131000C	50	25	vented	X	10	case / 200
131002C	250	75	vented	X	5	case / 100
131004C	600	175	vented	X	5	case / 40
131006C	50	25	filter	X	10	case / 200
131008C	250	75	filter	X	5	case / 100
131010C	600	175	filter	X	5	case / 40



Cell culture flasks treated for a good cell adhesion and particularly suited to the culture of adherent cells.

- ▶ Polystyrene flasks for single use
- ▶ Three culture surface areas: 25, 75 and 182 cm²
- ▶ Comes treated for the culture of adherent cells
- ▶ Flasks equipped with stacking rims
- ▶ Angled neck
- ▶ DNA, DNase, RNase, Pyrogen and Cytotoxine free
- ▶ Sterile



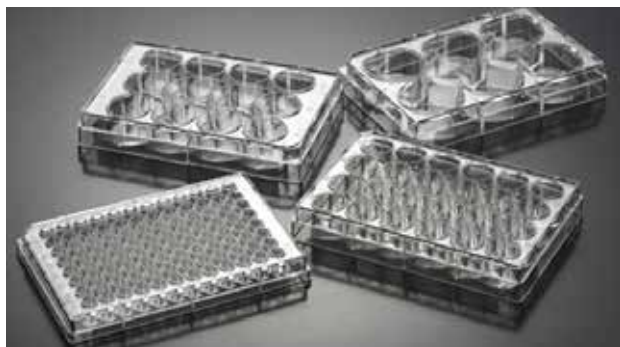
CAT. NO.	Surface (cm²)	Cap Style	Sterile	Units / Bag	Sale unit
690160	25	standard	X	10	case / 200
690170	25	squared	X	5	case / 100
690175	25	filter	X	5	case / 200
658170	75	standard	X	10	case / 200
658175	75	filter	X	5	case / 100
660160	182 Low	standard	X	-	case / 50
660175	182 Low	filter	X	-	case / 50
661160	182 High	standard	X	-	case / 40
661175	182 High	filter	X	-	case / 40



MULTIWELL CELL CULTURE PLATES

- ▶ Special design to promote gas exchange
- ▶ Medical grade crystal polystyrene
- ▶ Treated for cell cultures
- ▶ Lid, large and deep spacing between the wells to prevent cross-contamination
- ▶ Serration areas on the sides ensure the user to always grips both the plate and lid
- ▶ Cut corner
- ▶ Identification alpha numeric of each well
- ▶ Single packed "peel-off"
- ▶ Sterilised by gamma irradiation
- ▶ Certified RNase, DNase free
- ▶ Certified an endotoxin level of < 0.5 EU/ml
- ▶ Certificates available on request

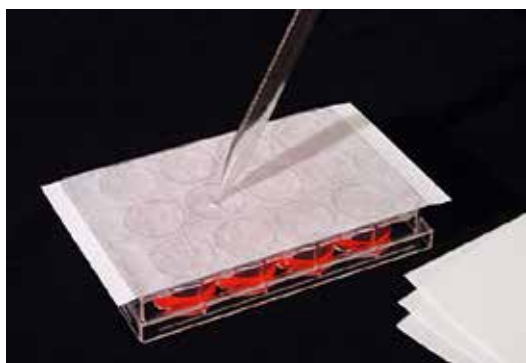
DNase
RNase



CAT. NO.	Surface (cm ²)	Bottom	Max. well volume (ml)	Wells	Packaging
131028C	9.6	Flat	17	6	case / 100
131024C	3.85	Flat	6.8	12	case / 100
131020C	1.93	Flat	3.5	24	case / 100
131019C	0.84	Flat	1.55	48	case / 100
131012C	0.33	Flat	0.39	96	case / 100

AERASEAL POROUS FILM

- ▶ Hydrophobic porous film with a thickness of 114 µm
- ▶ Medical grade adhesive
- ▶ Designed for deepwells with 96 wells and microplates for cultures or bacteriology
- ▶ Reduced risk of cross-contamination and evaporation
- ▶ Promotes uniform gas exchange in all wells
- ▶ Dimensions: 82.6 x 142.9 mm
- ▶ Non-cytotoxic
- ▶ Extremely gas permeable
- ▶ Can be easily pierced with a pipette tip to collect samples
- ▶ Can be used from -20°C to +80°C



CAT. NO.	Description	Sale unit
760214	AeraSeal Adhesive film	case / 100
760215	Sterile AeraSeal Adhesive film	case / 50

CLEARLine® PETRI DISHES

- ▶ Packaged in "peel-off" bags
- ▶ Sterilised by gamma irradiation
- ▶ Certified RNase and DNase free
- ▶ Certified an endotoxin level of < 0.5 EU/ml
- ▶ Certificates available on request

DNase
RNase



CAT. NO.	Surface (cm ²)	Diameter	Sale unit
131046C	8.5	35	case / 960
131048C	21.2	60	case / 600
131050C	60.8	100	case / 300
131052C	143	150	case / 120

CELL SCRAPERS

Sterile cell scraper for cell culture.

- ▶ Polyethylene
- ▶ Individually packaged
- ▶ Sterilised by gamma irradiation
- ▶ Pivoting polyethylene blade

CAT. NO.	Length	Sale unit
010153	180 mm	case / 100
010154B	250 mm	case / 100



THINSEAL & SEALPLATE STERILE FILM

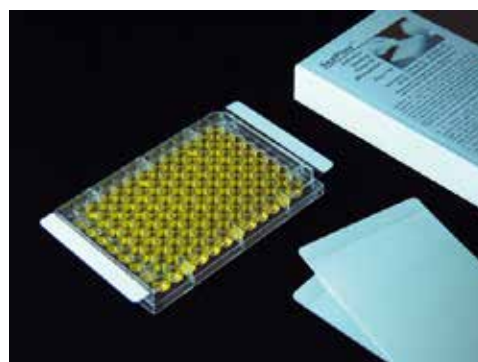
Sterile film for multiwell culture plates.

ThinSeal characteristics:

- ▶ Thickness of 25 µm
- ▶ Can be easily pierced with a pipette tip
- ▶ Dimensions: 79.4 x 141 mm

SealPlate characteristics:

- ▶ 50 µm polyester film
- ▶ Seals the plates hermetically
- ▶ Avoids rim effects
- ▶ The sterile version can be used for multiwell culture plates
- ▶ Film dimensions: 79.4 x 146 mm



CAT. NO.	Description	Sale unit
760201	Sterile SealPlate Adhesive film - 50µm	case / 100
760205	Sterile ThinSeal Adhesive film - 25µm	case / 100



PCR AND PLATES

For more details please visit:

<http://www.biosigma.com/pcr-and-plates.html>

PCR MICROTUBES

PCR microtubes 0.2 ml *M*ulti

- ▶ Microtube with domed or flat cap
- ▶ Thin wall for optimal and uniform heat transfer
- ▶ Pure polypropylene, very transparent
- ▶ Certified RNase and DNase free
- ▶ Suitable for all thermal cyclers



PCR microtube 0.2 ml *M*ulti

CAT. NO.	Volume	Cap	Internal packaging	Sale unit
023190	0.2	domed	500	5000
023190A	0.2	domed	500	500
016950	0.2	flat	1000	10000
016950A	0.2	flat	1000	1000

Individual PCR tubes 0.2 ml

- ▶ 0.2 ml PCR tube with flat or domed cap attached
- ▶ Excellent transparency and wall thinness
- ▶ RNase and DNase free



Individual PCR tube 0.2 ml

CAT. NO.	Volume	Cap	Sale unit
010207	0.2	flat	1000

PCR microtubes ABgene

- ▶ Thin walls for optimal and uniform heat transfer
- ▶ Pure polypropylene
- ▶ Certified human DNA, DNase and RNase free
- ▶ With domed or flat cap
- ▶ Highly transparent
- ▶ Secure closing system

PCR microtube 0.2 and 0.5 ml with flat cap

CAT. NO.	Volume	Cap	Sale unit
016139	0.2	flat	1000
016155	0.5	flat	1000



PCR microtubes - 0.65ml *M*ulti

- ▶ Thin wall
- ▶ Useful volume: 0.5 ml
- ▶ Total volume: 0.65ml
- ▶ DNA, DNase, RNase, Pyrogen, PCR inhibitor free



PCR Microtube: 0.65 ml *M*ulti

CAT. NO.	Volume	Sale unit
015160A	PCR Microtube: 0.65 ml <i>M</i> ulti	1000

Safeseal microtubes - 0.65 ml

- ▶ Graduated with writable surface
- ▶ Guaranteed RNase & DNase free
- ▶ Centrifuged up to 26000g
- ▶ Autoclavable and freezable to resist from -80 °C to +121°C
- ▶ The AvantGuard microtubes are packed in bags and then in thin wall carton boxes
- ▶ Useful volume: 0.5 ml
- ▶ Total volume: 0.65 ml



Microtube: 0.65 ml

CAT. NO.	Volume	Sale unit
017030A	Safeseal microtubes - 0.65 ml, natural color	1000
017030	Safeseal microtubes - 0.65 ml, natural color	20000

PCR MICROTUBES IN STRIP

PCR Microtubes 0.2 ml in strip *Multi*

- ▶ Extra thin wall in strips of 8
- ▶ Volume: 200 μ l
- ▶ Easy to cut into individual tubes
- ▶ Numerical labelling on each tube
- ▶ RNase, DNase free



116380

Thermo-strip standard tubes

Microtube in strips of 8 or 12 for all makes of thermal cyclers. "Low Profile" to reduce dead volume and to remove condensation on the walls and thus limiting water evaporation. Very effective for small volumes less than 20 μ l.

- ▶ Detachable single tube



016303

Microtube 0.2 ml strip *Multi*

CAT. NO.	Volume	Cap	Color	Sterile	Internal packaging	Sale unit
116380	0.2	domed	natural		250	2000
116280	0.2	domed	natural	X	120	960
138790	0.2	w/out	natural		250	2000

Cap in strip of 8 *Multi*

CAT. NO.	Volume	Cap	Color	Optical	Internal packaging	Sale unit
038780	0.2	domed	natural		250	2000
037990	0.2	flat	natural	X	250	2000

Strip of 8

Description	Microtubes Standard		Microtubes Low profile	
Strip of 8 microtubes natural + domed cap	016000	016303	017868	016514
Strip of 8 microtubes mixed colours + cap	016000F	-	016166	-
Strips of 8 microtubes natural colour + flat cap	016561	-	017239	016389
Strips of 8 Low Profile microtubes - colour : assorted blue + flat caps	017867	-	016517	-
8 microtubes for quantitative PCR + caps	-	016562	017802	-
Strip of 8 microtubes without cap	016001	016164	-	016167
Internal packaging	250 x 8	12 x 8	250 x 8	12 x 8
Sale unit	250 x 8	120 x 8	250 x 8	120 x 8

Strip of 12

Description	Microtubes Standard	Microtubes Low profile
Strip of 12 microtubes + domed cap	016512	-
Strip of 12 microtubes + flat cap	016513	016518
Strip of 12 microtubes natural without cap	016511	-
Internal packaging	80 x 12	80 x 12
Sale unit	80 x 12	80 x 12

Single cap microtubes in strips

Strip of 8 PCR microtubes 0.2 mL with the strip of 8 caps laterally attached - or with 8 caps individually attached.

- Prevents searching for tubes and caps
- Eliminates cross-contamination
- Domed or flat caps

- ▶ RNase/DNase free
- ▶ PCR Inhibitor Free
- ▶ Endotoxine free



Single cap microtubes in strips

CAT.NO.	Volume	Sale unit
048023	Strip of 8 PCR microtubes 0.2 mL with the strip of 8 caps laterally attached - or with 8 caps individually attached	120

PCR Microtubes 0.2 ml in strip with cap

- ▶ 8- tube strip and 8-cap strip domed or flat
- ▶ Excellent transparency and wall thinness
- ▶ RNase and DNase free
- ▶ Can be centrifuged at 6000 g
- ▶ Can be used from -20°C to 100°C
- ▶ Thin wall to facilitate heat transfer



010158

PCR tube 0.2 ml strip

CAT. NO.	Volume	Cap	Color	Internal packaging	Sale unit
010158	0.2	domed	natural	125	1000
010208	0.2	flat	natural	125	1000

PCR MULTI-MICROTUBE RACKS

It is possible to fix rack B for 96 microtubes of 0.2 ml onto rack A; it clips into the place intended for the individual 0.2 ml microtubes.

Rack A characteristics:

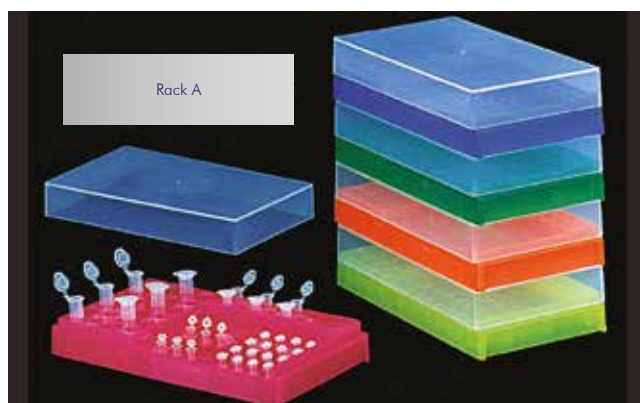
- ▶ Translucent lid included
- ▶ Choice of bright colours
- ▶ Stackable
- ▶ Alphanumeric index

Rack B characteristics:

- ▶ Microplate format
- ▶ With lid
- ▶ Can be used on its own or can be clipped onto rack A
- ▶ L x w x h: 126 x 86 x 33mm with lid, 126 x 86 x 11 mm without lid

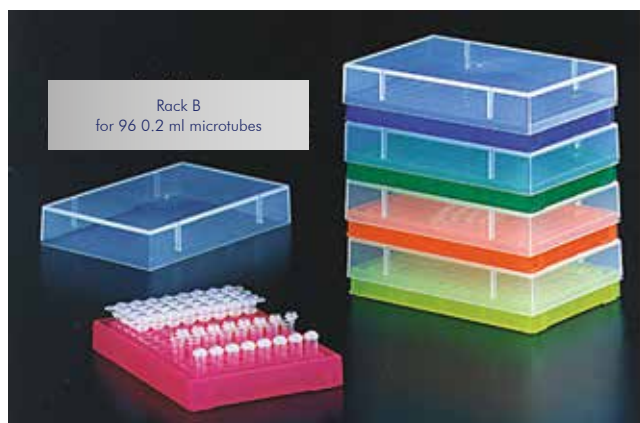
Rack A capacity:

- ▶ 32 individual PCR microtubes - 0.2 ml
- ▶ 16 microtubes - 0.5 ml
- ▶ 24 microtubes - 1.5 ml or 2 ml



A: rack with lid for storage on one single side

CAT. NO.	Type	Color	Sale unit
045465	for storage of PCR microtubes - 0.2 ml - 0.5 - 1.5 - 2 ml	blue	1
045466		green	1
045467		orange	1
045468		pink	1
045469		yellow	1
045470			5



B: rack for 96 PCR microtubes - 0.2 ml

CAT. NO.	Type	Color	Sale unit
045471	for storage of 96 PCR microtubes - 0.2 ml	blue	1
045472		green	1
045473		orange	1
045474		pink	1
045475		yellow	1
045476			5

STACKABLE RACK FOR PCR

Coloured polypropylene rack with transparent lid for 96 PCR tubes 0.2 ml or 1 PCR plate (with or without skirt).

Dimensions:

- 138 x 98 x 39 mm with lid;
- 138 x 98 x 30 mm without lid.

- ▶ Stackable with or without lid
- ▶ Self-locking lid
- ▶ 4 feet
- ▶ Accepts non-skirted, skirted or semi-skirted PCR plates, individual tubes or in strips of 8 or 12



CAT. NO.	Description	Sale unit
045546	Set of 5 racks various colours (blue, yellow, red, green, purple) with lid	1

STORAGE BOX WITH RACK FOR PCR

Stackable system, for freezing at -80 °C.

Cryobox characteristics:

- ▶ Autoclavable polypropylene made
- ▶ With hinged lid
- ▶ Dimensions: 143 x 143 x 59 mm
- ▶ Closing tab

Rack characteristics:

- ▶ Autoclavable polypropylene made
- ▶ Detachable
- ▶ For 96 PCR microtubes of 0.2 ml - in strips, plates or individually + 8 microtubes of 0.5 ml + 16 microtubes of 1.5/2 ml



CAT. NO.	Description	Sale unit
038787	PCR storage box with rack	1

PLATES

PCR Plates with 96 wells for different thermal cycler types

- ▶ Thin polypropylene wall
- ▶ Available skirted, semi-skirted and non-skirted model
- ▶ DNA/DNase/RNase/PCR inhibitors and pyrogens free
- ▶ Black alphanumeric printing cut corner to facilitate plate orientation



PCR plate: 96 wells, semi-skirted



CAT. NO.	Color	Internal packaging	Sale unit
035800	natural	25	25
035900	natural	4 x 25	100



PCR plate: 96 wells, non-skirted



CAT. NO.	Color	Internal packaging	Sale unit
021970	natural	25	25
026190	natural	4 x 25	100



PCR plate: 96 wells, skirted



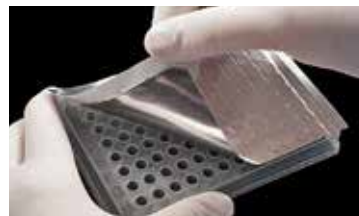
CAT. NO.	Color	Internal packaging	Sale unit
023080	natural	25	25
02844	natural	4 x 25	100

ADHESIVE FILMS

Adhesive film for PCR plate

ThermoQuick polycarbonate plates designed for PCR. The polycarbonate is characterised by an excellent resistance to high temperatures (to avoid any risk of plate deformation during the amplification cycle), and by its neutrality in relation to reagents and enzymes used.

- ▶ Excellent quick stick
- ▶ Good adhesion to a variety of polymers
- ▶ Performs over a wide temperature range (-15°C to +70°C)



CAT. NO.	Material	Use Temperature	Dimensions (mm)	Sale unit
106524	polycarbonate	-15 °C to +70 °C	117 x 78	100

AlumaSeal film roll

- ▶ 38 µm thick piercable film with 38 µm adhesive
- ▶ Aluminium sheet for delayed evaporation of samples
- ▶ Use temperature: -80°C to + 120°C
- ▶ One roll for 830 plates
- ▶ Non-sterile
- ▶ Dim.: 80 mm x 100 m
- ▶ Bag supply
- ▶ DMSO Resistant
- ▶ Free from nucleases, nucleic acids and pyrogens
- ▶ Recommended for PCR, HTS and cold storage
- ▶ Easy piercing



CAT. NO.	Description	Sale unit
765248	Roll film AlumaSeal non-sterile, 80 mm x 100 m	1 roll

AeraSeal film roll

- ▶ Porous and hydrophobic rayon film 114 µm
- ▶ With medical grade adhesive for cell cultures and 96-well plates used for bacterial culture
- ▶ Reduces evaporation and cross-contamination
- ▶ Improved and standardised gas exchange for all wells
- ▶ Temperature for use: -20°C to + 80°C
- ▶ One roll for 830 plates
- ▶ Easy piercing



CAT. NO.	Description	Sale unit
765247	AeraSeal film Roll- non-sterile, 81 mm x 100m	1 roll

PCR PLATES FASTPLATE M μ LTi

Plate characteristics:

- ▶ 96-well plates with printed marking
- ▶ Specially designed for the thermal cyclers ABI 9800 and 7500 FAST
- ▶ Low profile, very clear
- ▶ Can also be used with most thermal cyclers

Reactive characteristics:

- ▶ "Inferno Master Mix" specially designed for the specific protocols of the ABI 9800
- ▶ The kit includes 2 Master Mix flasks (each 1250 μ l) that enable 250 reactions to be carried out
- ▶ The formula combines a Taq and a mix of buffers



PCR plates Fastplate M μ lti

CAT. NO.	Description	Internal packaging	Sale unit
138800	PCR plate 96 wells FastPlate for ABI M μ lti	25 plates	1
138900	PCR plate 96 wells FastPlate for ABI M μ lti	4 x 25 plates	1
011670	Inferno Master Mix	2 x 1250 μ l	1

PCR PLATES 96 AND 384 WELLS FOR LIGHT CYCLER®

- ▶ White colour
- ▶ Polypropylene
- ▶ Specially intended for the Light Cycler® Roche® thermal cycler
- ▶ RNase and DNase free
- ▶ Only to be used with sealing film reference 136590



PCR plates 96 and 384 wells for Light Cycler®

CAT. NO.	Description	Sale unit
138870	PCR plate 96 wells for Light Cycler	100
138820	PCR plate 384 wells for Light Cycler	100
136590	Adhesive film for QPCR plate	100

SEMI-SKIRTED 96-WELL PCR PLATES, M μ LTi REINFORCED DECK

Thin-wall 96-well plate, for all types of thermal cyclers.

- ▶ Alphanumeric well indexing printed in black
- ▶ Certified DNase, RNase, human DNA and pyrogen-free



Plates

CAT. NO.	Description	Internal packaging	Sale unit
174370	Semi-skirted 96-well PCR plates, reinforced deck	4 Bags of 25	100

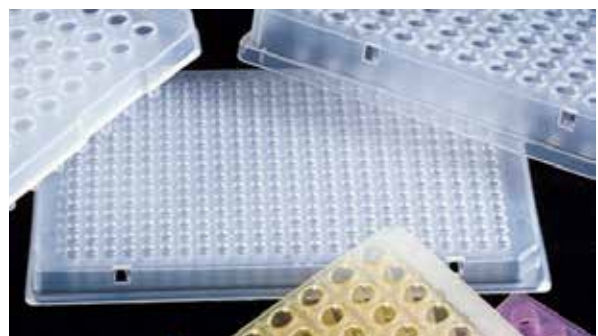
Accessories

CAT. NO.	Description	Sale unit
490010	Septa mat for ABI 3100	10
712201	Septa mat silicone for ABI 3100	50
136590	Adhesive film for QPCR plate	100

PCR PLATES 384 WELLS μ LTRA-PLATE M μ LTi

Rigid polypropylene plate with 384 wells for PCR.

- ▶ Total volume of each well: 40 μ l
- ▶ Working volume of each well: 25 μ l
- ▶ Can be autoclaved
- ▶ Certified as free from DNase and RNase



PCR plates 384 wells μ ltra-Plate M μ lti

CAT. NO.	Description	Sale unit
039620	PCR plate 384 wells μ ltra-Plate natural colour M μ lti	50



LIQUID HANDLING

For more details please visit:

<http://www.biosigma.com/liquid-handling.html>

ASPIRATION SYSTEM FOR SEROLOGICAL PIPETTES

- ▶ A full volume range: from 0.1 to 100 ml pipettes
- ▶ One-hand-use
- ▶ Lightweight, ergonomic design, fatigue-free pipetting
- ▶ Automatic adjustment of aspiration and dispenser speeds
- ▶ Lithium battery
- ▶ Low battery indication
- ▶ Aspires 50 ml in 5 seconds
- ▶ Large LCD display which provides visual confirmation of remaining battery charge and aspiration speed
- ▶ Fully autoclavable
- ▶ 0.45µm filter included

CLEARLine®
Accessories

Technical specifications BS400200

Aspiration speed	25 <5s (8shift)
Dispensing speed	Motor 8 speed + Gravity Dispense
Battery	Lithium
Battery life	8 Hours of discontinuous use
Charging time	Approx. 2-3 Hours
Pipettes types	Glass or plastic pipettes (0.1 - 100ml) or Pasteur pipettes
Filter	0.45µm hydrophobic
Weight	200g

Automatic pipettor

CAT. NO.	Description	Sale unit
BS400200	BiPette automatic pipette filler	1
BS400201	0.45µm filter replacement for BS400200	1



- ▶ Comfortable and easy to use
- ▶ Precise pipetting control
- ▶ Robust and light
- ▶ Easy to maintain
- ▶ Suitable for volumetric and graduated pipettes, glass or plastic made, from 0.1 to 100 ml
- ▶ 4 colours

Manual pipettor

CAT. NO.	Description	Colour	Sale unit
861000	Manual pipettor	blue	1
861001	Manual pipettor	red	1
861002	Manual pipettor	green	1
861003	Manual pipettor	yellow	1

861000



CLEARLine® SEROLOGICAL PIPETTES

Serological pipette of 1 ml, 2 ml, 5 ml, 10 ml, 25 ml, 50 ml and 100 ml designed to be used with electromotion pipette controller and manual pipette pump to transfer liquid in various volume for laboratory use.

- ▶ Seven types of volume 1, 2, 5, 10, 25, 50 and 100 ml
- ▶ Bidirectional graduation and negative graduation improve the accuracy
- ▶ Color code on tips make pipettes easily recognizable
- ▶ Sterile at gamma rays 10^{-6}
- ▶ Packaged in bags
- ▶ Bulk packaging and individually packaging in plastic/paper wrapper
- ▶ RNase-free, DNase-free and Non-pyrogenic
- ▶ Graduation calibrated, certificate available on request

Packaging information

Lot number printed on packaging for tracking

- ▶ Plastic/paper wrapper easy to open



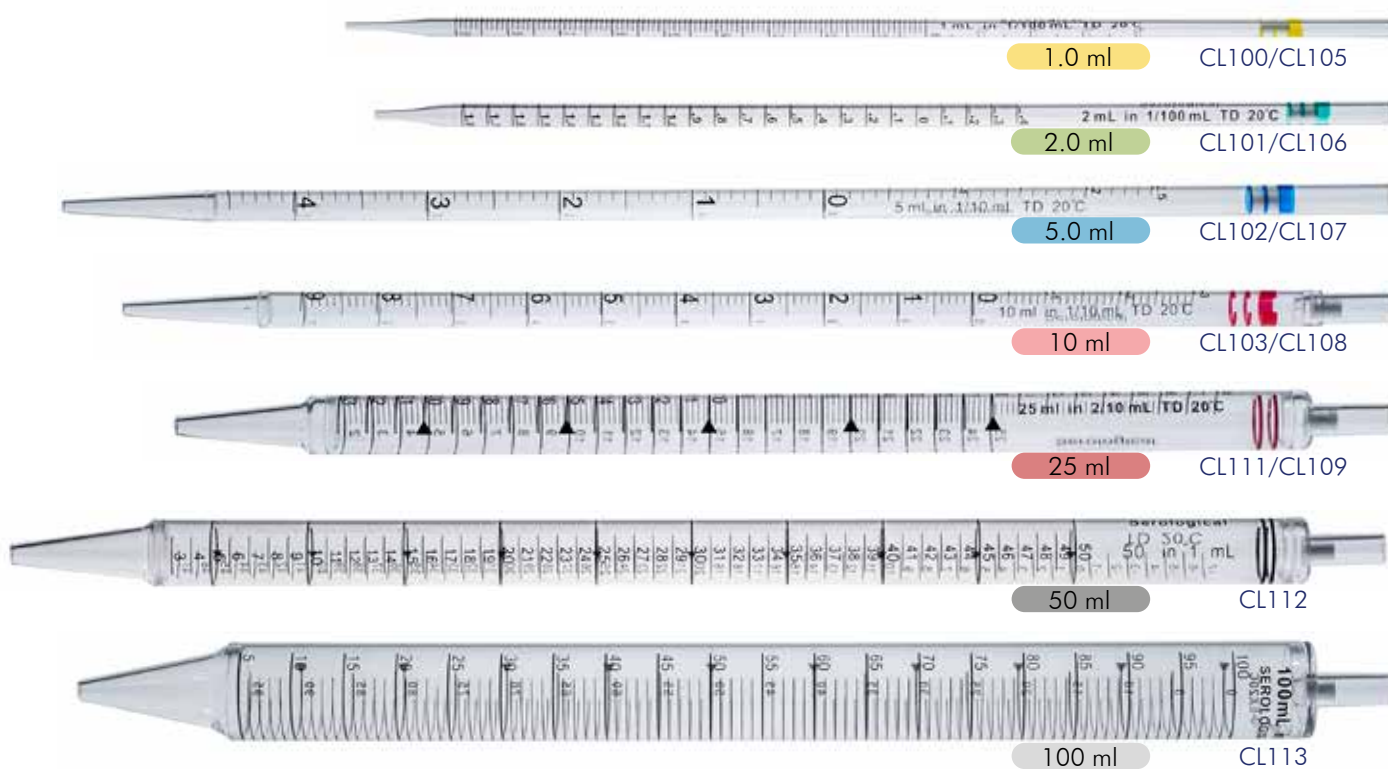
CLEARLine®

"Be cool, be safe, be CLEARLine"

DNase
RNase

Pyrogen

Gamma Rays Sterile
SAL 10^{-6}
EN ISO 11137



Sterile individually wrapped

CAT. NO.	Volume (ml)	Graduation	Internal Packaging	Sale unit
CL100	1	1/100	100	1000
CL101	2	1/100	100	800
CL102	5	1/10	50	300
CL103	10	1/10	50	200
CL111	25	2/10	50	200
CL112	50	1 ml	25	100
CL113	100	1 ml	50	50

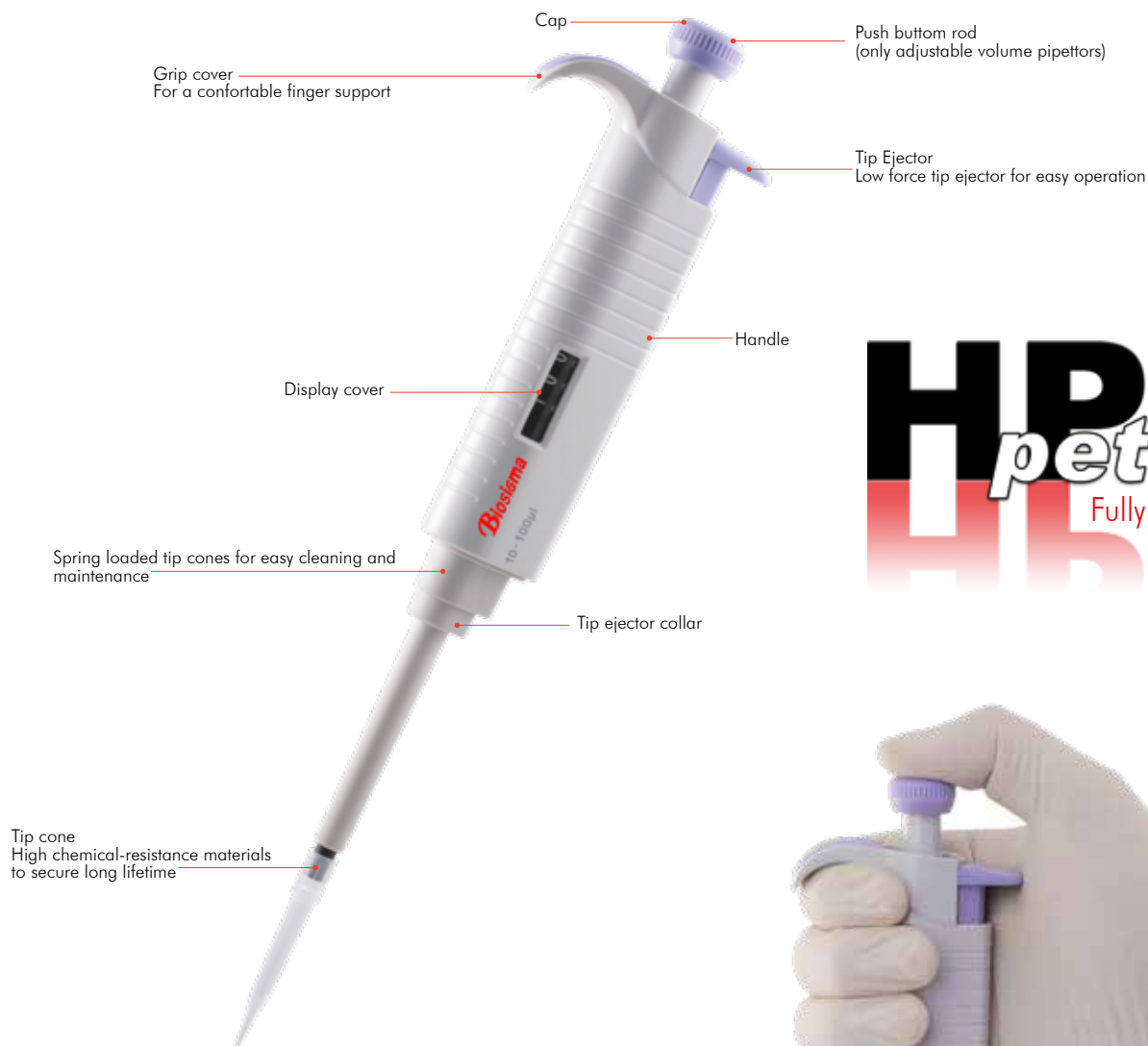
Sterile in bags

CAT. NO.	Volume (ml)	Graduation	Internal packaging	Sale unit
CL105	1	1/100	25	1000
CL106	2	1/100	25	800
CL107	5	1/10	25	500
CL108	10	1/10	25	350
CL109	25	2/10	25	350



Color code on tips make pipettes easily recognizable

MANUAL MICROPIPETTES WITH EJECTORS FULLY AUTOCLAVABLE



HP[®]
pette^Dlus
Fully Autoclavable



FEATURES

- ▶ Fully autoclavable
- ▶ Slim design and light in weight, less risk of strain injuries.
- ▶ Compatible with most universal tip brands
- ▶ Excellent grip
- ▶ User friendly
- ▶ Large display window allows for easier volume identification
- ▶ Ejector button on the back for easy identification
- ▶ Pipettes cover volume range from 0.1 µL to 5 mL
- ▶ Easy calibration and maintenance
- ▶ Each pipette is supplied with an individual calibration certificate according to ISO8655 performed in factory

for compatibility with tips see pages 51 and 53

Fix volume

CAT. NO.	Volume (µl)	Sale unit
ABS119HPA	5	1
ABS120HPA	10	1
ABS121HPA	20	1
ABS1210HPA	25	1
ABS122HPA	50	1
ABS123HPA	100	1
ABS124HPA	200	1
ABS1241HPA	500	1
ABS125HPA	1000	1

Adjustable volume

CAT. NO.	Volume (µl)	Sale unit
ABS1261HPA	0.1 - 2.5	1
ABS126HPA	0.5 - 10	1
ABS128HPA	2 - 20	1
ABS129HPA	5 - 50	1
ABS1290HPA	10 - 100	1
ABS131HPA	20 - 200	1
ABS1310HPA	50 - 200	1
ABS1311HPA	100 - 1000	1
ABS132HPA	200 - 1000	1
ABS127HPA	1000 - 5000	1



FEATURES

- ▶ Fully autoclavable
- ▶ 8 channel pipette are appropriate for 96-well plates
- ▶ Dispensing head rotates for effortless pipetting convenience
- ▶ Individual piston and tip cone assemblies allowing easy repair and maintenance
- ▶ Compound material-made tip cone secures high sealing performance
- ▶ Compatible with most universal tip brands

Multichannel 8 channel

CAT. NO.	Volume (μl)	Compatible Tip	Sale unit
ABS133HPA	5 - 50	BSR066	1
ABS135HPA	50 - 300	BSR074	1
ABS136HPA	0.5 -10	BSR064	1

Fully autoclavable

The HP-Pette Plus are fully autoclavable enable easy cleaning to reduce the risk of contamination. Steam autoclaving can be performed at 121 °C, 1 bar for 20 minutes. After autoclaving the pipette must be cooled down and left to dry for 12 hours before use. It is recommended to check the performance of the pipette after each autoclaving. Greasing and sealing of the pipette piston after every 10th autoclaving will secure an enhanced function.



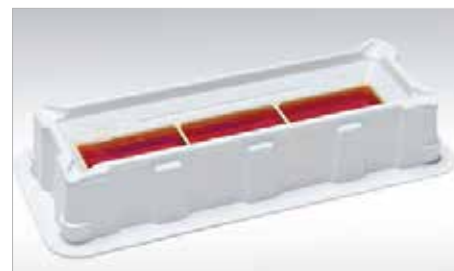
- ▶ Compatible only with HP-Pette Plus
- ▶ With 5 stations
- ▶ The carousel stand rotates smoothly and comfortably
- ▶ It holds up to 6 pipettes

Rack

CAT. NO.	Description	Sale unit
861006	Pipettor stands in ABS	1
861055	Carousel pipette stand, suitable for 6 pipettes	1

STERILE PS REAGENT RESERVOIRS IN 25, 50, 100 ml

- ▶ In medical polystyrene
- ▶ Available Sterile and not
- ▶ Made in clean room
- ▶ Human DNA, RNase, DNase, non pyrogenic free
- ▶ Sterile SAL 10⁻⁶
- ▶ Angles with deposit system
- ▶ Graduated (volume accuracy +/- 5 %)
- ▶ V bottom to maximize the samples' rescue
- ▶ Non autoclavable



Standard reservoir in white polystyrene

Vol. (ml)	Non sterile bag / 100	Sale unit	Sterile bag / 1	Sale unit	Sterile bag / 5	Sale unit
25	097805	100	097801	100	097800	200
50	097819	100	097802	100	097803	200
100	097804	100	087806	100	087807	200

3 channel reservoirs in white polystyrene

Volume (ml)	Sterile bag / 1	Sale unit	Sterile bag / 5	Sale unit
25	087804	100	087805	200

LIQUID HANDLING

STANDARD TIPS

Several tip models utilizable with the most important pipette brands of the market.
Available in bulk and rack both. Made of Polypropylene
Autoclavable racks



Example of tips bag



Example of tips in rack
0 - 200 µl



Example of tips in rack
200 - 1000 µl



Example of tips in
blister of 5 pcs

Tip: EPPENDORF® type

Photo	CAT. NO.	Volume (µl)	Color	Sterile	Internal packaging	Sale unit	Compatibility
	BSR062	0-10	neutral		Bag 1000 pcs	25000	Eppendorf® Cristal
	BSR063				Rack 96 pcs	9600	
	BSR0625	0.5-10		X	Blister 5 pcs	1000	Eppendorf® - Gilson® - Socorex® - HTL® - Nichiryo®
	BSR001	0-200	yellow		Bag 1000 pcs	25000	Eppendorf® - Brand® - Socorex®
	BSR041				Rack 96 pcs	9600	
	BSR011	5-100		X	Blister 5 pcs	3000	Eppendorf® - Gilson® - Socorex® - Nichiryo® - Pipetman® - Brand® - Clinipette® - Biohit® - Labssystem® - Excalibur® - HTL® - Finnpiptette®
	BSR002	200-1000	blue		Bag 500 pcs	10000	Eppendorf® - Socorex® - HTL® - Nichiryo®
	BSR042		light blue		Rack 96 pcs	9600	
	BSR012	100-1000	blue	X	Blister 5 pcs	1000	Eppendorf® - Gilson® - Socorex® - Nichiryo® - Pipetman® - Brand® - Clinipette® - Biohit® - Labssystem® - Excalibur® - HTL® - Finnpiptette®
	BSR080	1000-5000	neutral		case 250 pcs	2000	Eppendorf® - Socorex® - Biohit® - Oxford® - Acura®

Tip: GILSON® type

Photo	CAT. NO.	Volume (µl)	Color	Sterile	Internal packaging	Sale unit	Compatibility
	BSR064	0.1-10	neutral		Bag 1000 pcs	10000	Gilson® - Eppendorf® - Socorex® - Nichiryo® - Jencons® - Biohit® Old Model - Elakay® - HTL® - Finnpiptette®
	BSR076				Rack 96 pcs	960	
	BSR066	0-200	yellow		Bag 1000 pcs	25000	Gilson®
	BSR0665	5-200		X	Blister 5 pcs	1000	
	BSR067	100-1000	blue		Bag 1000 pcs	10000	Gilson® - Eppendorf® - Socorex® - HTL® - Nichiryo®
	BSR075				Rack 96 pcs	960	

Tip: MLA® type

Photo	CAT. NO.	Volume (µl)	Color	Sterile	Internal packaging	Sale unit	Compatibility
	BSR008	10-200	neutral		Bag 1000 pcs	12000	Mla® - Oxford®
	BSR018			X	Blister 5 pcs	2000	
	BSR048/N				Rack 192 pcs	960	
	BSR009	100-1000	neutral		Bag 1000 pcs	10000	Mla® - Finnpiptette® Colour model
	BSR019			X	Blister 5 pcs	500	
	BSR049/N	250-1000			Rack 192 pcs	960	Mla®

Tip: Oxford® type

Photo	CAT. NO.	Volume (µl)	Color	Sterile	Internal packaging	Sale unit	Compatibility
	BSR004	5-200	neutral		Bag 1000 pcs	10000	Oxford® slim line - Diamed®
	BSR014			X	Blister 5 pcs	500	
	BSR003	10-200	neutral		Bag 1000 pcs	22000	Oxford® - Finnpiptette®
	BSR013			X	Blister 5 pcs	1500	
	BSR007	101-1000	blue		Bag 1000 pcs	10000	Oxford®
	BSR017			X	Blister 5 pcs	500	

LIQUID HANDLING

Standard Tips compatibility with HPpette

Match the right tip to each HPpette

<div><div></div><div>Micropipettes</div></div>		Micropipettes Single channel																		Multichannel 8 channel		
		Adjustable volume										Fix volume										
		ABS1261HPA 0.1-2.5µl	ABS126HPA 0.5-10µl	ABS128HPA 2-20µl	ABS129HPA 5-50µl	ABS1290HPA 10-100µl	ABS131HPA 20-200µl	ABS1310HPA 50-200µl	ABS1311HPA 100-1000µl	ABS132HPA 200-1000µl	ABS127HPA 1000-5000µl	ABS119HPA 5 µl	ABS120HPA 10 µl	ABS121HPA 20 µl	ABS1210HPA 25 µl	ABS122HPA 50 µl	ABS123HPA 100 µl	ABS124HPA 200 µl	ABS1241HPA 500 µl	ABS125HPA 1000 µl		
Tips	X = compatible																					
BSR062	0-10 µl neutral	X	X								X	X								X		
BSR063	0-10 µl neutral	X	X								X	X								X		
BSR0625	0.5-20 µL neutral	X	X								X	X								X		
BSR001	0-200 µl yellow			X	X	X	X	X					X	X	X	X	X					
BSR041	0-200 µl yellow			X	X	X	X	X					X	X	X	X	X					
BSR011	5-100 µl yellow			X	X	X	X	X					X	X	X	X	X					
BSR064	0.1-10 µl neutral	X	X								X	X								X		
BSR076	0.1-10 µl neutral in rack 96 pcs	X	X								X	X								X		
BSR066	0-200 µL yellow			X	X	X	X	X					X	X	X	X	X				X	
BSR0665	5-200 µL yellow			X	X	X	X	X					X	X	X	X	X				X	
BSR002	200-1000 µL blue								X	X								X	X			
BSR042	200-1000 µL light blue								X	X								X	X			
BSR012	100-1000 µL blue								X	X								X	X			
STANDARD TIPS	BSR074	2-300 µl neutral in rack 96 pcs																				X
	BSR067	100-1000 µl blue								X	X							X	X			
	BSR075	100-1000 µl blue								X	X							X	X			
	BSR080	1000-5000 µl neutral									X											
	BSR008	10-200 µL neutral			X	X	X	X	X				X	X	X	X	X					
	BSR018	10-200 µL neutral			X	X	X	X	X				X	X	X	X	X					
	BSR048/N	10-200 µL neutral			X	X	X	X	X				X	X	X	X	X					
	BSR009	100-1000 µL neutral																				
	BSR019	100-1000 µL neutral																				
	BSR049/N	250-1000 µL neutral																				
	BSR004	5-200 µL neutral																				
	BSR014	5-200 µL neutral																				
BSR003	10-200 µL neutral																					
BSR013	10-200 µL neutral																					
BSR007	101-1000 µL neutral																					
BSR017	101-1000 µL neutral																					

New Biosigma CLEARLine® STERILE FILTER TIPS, RACKED

UNIVERSAL FILTER TIPS IN RACK, in PP Sterile, Low Retention.
DNase & RNase free, Pyrogen free - CLEARLine®

FEATURES

- ▶ New CLEARLine® packaging
- ▶ QR code in the label that simplifies tracking of lot number and expiry date
- ▶ Filtered tip, in natural polypropylene
- ▶ Sterile
- ▶ Autoclavable at +121°C
- ▶ Standard and low retention
- ▶ DNase & RNase free, Pyrogen free
- ▶ Racked, hinged lid
- ▶ Compatible with most micropipettes on the market
- ▶ Environmentally Green friendly packaging

CLEARLine®
"Be cool, be safe, be CLEARLine"



Tip: CLEARLine® Standard

Photo	CAT. NO.	Volume (µl)	Features	Sterile	Internal packaging	Sale unit	Compatibility
10µl Universal filter tips 	028200CLH	10µl	Universal filter tips (31,65mm)	X	10 Rack of 96 pcs	960	Axygen, Thermo, Gilson, Eppendorf and so on only except special pipette models
10µl Universal filter tips longer 	015020CLH	10µl	Universal filter tips longer (45,80mm)	X	10 Rack of 96 pcs	960	
20µl Universal filter tips 	014210CLH	20µl	Universal filter tips (50,55mm)	X	10 Rack of 96 pcs	960	
100µl Universal filter tips 	036060CLH	100µl	Universal filter tips (50,55mm)	X	10 Rack of 96 pcs	960	
200µl Universal filter tips 	014220CLH	200µl	Universal filter tips (50,55mm)	X	10 Rack of 96 pcs	960	
1000µl Universal filter tips 	014200CLH	1000µl	Universal filter tips (78,05mm)	X	10 Rack of 96 pcs	960	
1000µl (1250µl) Universal filter tips 	134000CLH	1000µl (1250µl)	Universal filter tips (102,00±0,25mm)	X	10 Rack of 96 pcs	960	

Tip: CLEARLine® Low Retention

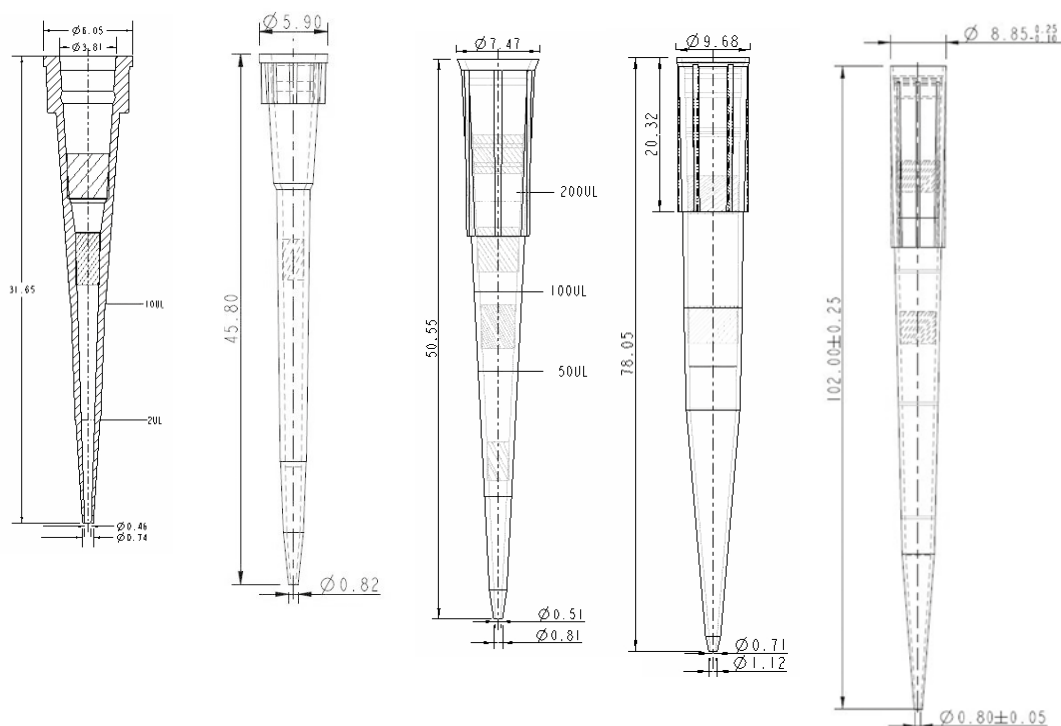
Photo	CAT. NO.	Volume (µl)	Features	Sterile	Internal packaging	Sale unit	Compatibility
10µl Universal filter tips 	713130H	10µl	Universal filter tips (31,65mm)	X	10 Rack of 96 pcs	960	Axygen, Thermo, Gilson, Eppendorf and so on only except special pipette models
10µl Universal filter tips longer 	713114H	10µl	Universal filter tips longer (45,80mm)	X	10 Rack of 96 pcs	960	
20µl Universal filter tips 	713115H	20µl	Universal filter tips (50,55mm)	X	10 Rack of 96 pcs	960	
100µl Universal filter tips 	713116H	100µl	Universal filter tips (50,55mm)	X	10 Rack of 96 pcs	960	
200µl Universal filter tips 	713117H	200µl	Universal filter tips (50,55mm)	X	10 Rack of 96 pcs	960	
1000µl Universal filter tips 	713118H	1000µl	Universal filter tips (78,05mm)	X	10 Rack of 96 pcs	960	
1000µl (1250µl) Universal filter tips 	713119H	1000µl (1250µl)	Universal filter tips (102,00±0,25mm)	X	10 Rack of 96 pcs	960	

LIQUID HANDLING

CLEARLine® Tips compatibility with HPpette

Match the right tip to each HPpette

Micropipettes		Micropipettes Single channel																		Multichannel 8 channel			
		Adjustable volume									Fix volume												
		ABS1261HPA 0.1-2.5µl	ABS126HPA 0.5-10µl	ABS128HPA 2-20µl	ABS129HPA 5-50µl	ABS1290HPA 10-100µl	ABS131HPA 20-200µl	ABS1310HPA 50-200µl	ABS1311HPA 100-1000µl	ABS132HPA 200-1000µl	ABS127HPA 1000-5000µl	ABS119HPA 5 µl	ABS120HPA 10 µl	ABS121HPA 20 µl	ABS1210HPA 25 µl	ABS122HPA 50 µl	ABS123HPA 100 µl	ABS124HPA 200 µl	ABS1241HPA 500 µl	ABS125HPA 1000 µl	ABS136HPA 0.5-10µl	ABS133HPA 5-50µl	ABS135HPA 50-300µl
Tips	X = compatible																						
028200CLH	10µl	X	X								X	X									X		
015020CLH	10µl longer																						
014210CLH	20µl			X									X									X	
036060CLH	100µl				X	X								X	X	X						X	
014220CLH	200µl																						
014200CLH	1000µl								X	X								X	X				
134000CLH	1000µl (1250µl)																						
713130H	10µl low retention	X	X								X	X									X		
713114H	10µl longer low retention																						
713115H	20µl low retention			X									X									X	
713116H	100µl low retention				X	X								X	X	X						X	
713117H	200µl low retention																						
713118H	1000µl low retention								X	X								X	X				
713119H	1000µl (1250µl) low retention																						



Standard	028200CLH	015020CLH	014210CLH 036060CLH 014220CLH	014200CLH	134000CLH
Low Retention	713130H	713114H	713115H 713116H 713117H	713118H	713119H

STERILE FILTER TIPS, RACKED, IN LIFT-OFF LID BOXES

Your solution for liquid samples.

- ▶ Filtered tip, in natural polypropylene, racked, available in lift-off lid boxes
- ▶ Certified DNase, RNase-free, human DNA, PCR inhibitors and Pyrogen free
- ▶ Sterile
- ▶ The ISO 8655 norm, as established by an independent laboratory, guarantees that the ClearLine® tips do not alter the pipette's technical specifications as set by their manufacturer - Visit www.dutscher.com/clearline to view the tips' compatibility test results with your pipettes.
- ▶ Autoclavable at 121°C
- ▶ Supplied in a rack with removable lid, for under hood use



Certificate ISO-8655



Certification ISO-8655



Available:

- ▶ In standard virgin polypropylene
- ▶ In low Binding: the tip, hydrophobic PP made, reduces the surface tension with two benefits: a maximal sample refund and a minimal retention of DNA and proteins (weakest retention respect to the standard one)

Model	Volume (µl)	Features	Compatibility	Standard		Low Binding	
				CAT. NO.	Sale unit	CAT. NO.	Sale unit
Microguard 10G	0.1-10 µl	Small volume Tips (28.8 mm)	Gilson P2-P10, Finnpiquette 2-10 µl Biohit 2.5-10 µl	028200CL	10x96	035200CL	10x96
MicroReach Guard	0.1-10 µl	Universal Long (45 mm)	Gilson P2-P10 Eppendorf 10 µl Finnpiquette 2-10 µl Biohit 2.5-10 µl	038000CL	10x96	038000TCL	10x96
Microguard 10XL	0.1-10 µl	Universal Long (45 mm)	Gilson P2-P10 Eppendorf 2.5 µl – 10 µl Finnpiquette 2-10 µl Biohit 2.5-10 µl	130340CL	10x96	-	-
Multiguard 10E	0.5-10 µl	Crystal Long tips (45.5 mm)	Eppendorf 10 µl Socorex 10 µl	015020CL	10x96	035210CL	10x96
Multiguard 20 µl	1-20 µl	Universal (50.7 mm)	Gilson P20 Eppendorf 20 µl Finnpiquette 10-20 µl Socorex 20 µl	014210CL	10x96	035220CL	10x96
Multiguard 100 µl	1-100 µl	Universal (50.7 mm)	Gilson P100 Biohit 50-100 µl Eppendorf 100 µl Finnpiquette 50-100 µl Socorex 100 µl	036060CL	10x96	036060TCL	10x96
Multiguard 200 µl	1-200 µl	Universal (50.7 mm)	Gilson P200 Eppendorf 200 µl Finnpiquette 200 µl Socorex 200 µl	014220CL	10x96	035230CL	10x96
MultiGuard3 and 200 µl	1-2 µl 1-100 µl 1-200 µl	Long Tips (78.0 mm)	Gilson P20 – P100 – P200 Biohit 50-100 µl Eppendorf 20-100-200 µl Finnpiquette 10-20-50-100-200 µl	017370CL	10x96	035240CL	10x96
Multiguard 300 XT	1-300 µl	Long Tips (78.0 mm)	Gilson P200 Biohit 250 µl Eppendorf 200 µl Finnpiquette 200 µl	130510CL	10x96	130510TCL	10x96
Multiguard 1000 µl	100-1000 µl	Universal (71.8 mm)	Gilson P1000 Eppendorf 1000 µl Finnpiquette 1000 µl Biohit 1000 µl Socorex 1000 µl	014200CL	10x100	035260CL	10x100
Multiguard 1250 µl	50-1250 µl	Long Tips (102 mm)	for pipettes 1000 µl	134000CL	8x96	-	-

Non-filter tips, racked, lift-off lid

Standard tips

Low-binding tips

Volume (µL)	Description	Compatibility	Qty	Non-sterile	Sterile	Non-sterile	Sterile
0.1 - 10	45 mm long, fine tip	Universal	10 x 96	030560ACL	030570ACL	-	-
0.1 - 10	45 mm long tip	Universal	10 x 96	037640CL	037660CL	037640TCL	037660TCL
1 - 200	Universal tip, natural colour - length 50.7 mm	Universal	10 x 96	032230CL	032250CL	-	035100ACL
1 - 200	Universal graduated tip, yellow - length 50.7 mm	Universal	10 x 96	032240CL	032260CL	-	-
100 - 1000	Universal tip, blue - length 72.8 mm	Universal	10 x 100	027110CL	027120CL	-	-
50 - 1250	102 mm long tip	Universal	8 x 96	134750CL*	134760CL*	-	-

* Supplied in a rack with hinged lid

Tips compatibility with **HP**pette

Match the right tip to each **HP**pette

			Micropipettes																	Multichannel 8 channel					
			Adjustable volume										Fix volume												
			ABS1261HPA 0.1-2.5µl	ABS126HPA 0.5-10µl	ABS128HPA 2-20µl	ABS129HPA 5-50µl	ABS1290HPA 10-100µl	ABS131HPA 20-200µl	ABS1310HPA 50-200µl	ABS1311HPA 100-1000µl	ABS132HPA 200-1000µl	ABS119HPA 5 µl	ABS120HPA 10 µl	ABS121HPA 20 µl	ABS1210HPA 25 µl	ABS122HPA 50 µl	ABS123HPA 100 µl	ABS124HPA 200 µl	ABS1241HPA 500 µl				ABS125HPA 1000 µl		
Tips	X = compatible																								
CLEARLINE STERILE FILTER TIPS RACKED	028200CL 035200CL	0.1 - 10 µL Gilson-type short tip (length 28.8mm)	X	X																			X		
	038000CL 038000TCL	0.1 - 10 µL long tip (length 45mm)	X	X																			X		
	130340CL	0.1 - 10 µL long fine tip (length 45mm)	X	X																			X		
	015020CL 035210CL	0.5 - 10 µL Eppendorf-type short tip (length 45.5mm)	X	X																					
	014210L 035220CL	0.2 - 20 µL universal tip			X									X											
	036060CL 036060TCL	1 - 100 µL universal tip			X	X	X							X	X	X	X								
	014220CL 035230CL	1 - 200 µL universal tip					X	X	X						X	X	X								
	017370CL 035240CL	Long tip for 20. 100 or 200 µL pipettes			X	X	X	X	X					X	X	X	X	X							X
	130510CL 130510TCL	1 - 300 µL long tip (length 78mm)			X	X	X	X	X					X	X	X	X	X						X	
	014200CL 035260CL	100 - 1000 µL long tip (length 102mm)									X	X							X	X					
134000CL	50 - 1250 µL long tip (length 102mm)									X	X							X	X						
CLEARLINE NON-FILTER TIPS, RACKED	030560ACL 030570ACL	0.1 - 10 µL long fine tip (length 45mm)	X	X									X	X									X		
	037640CL 037660CL 037640TCL	0.1 - 10 µL long tip (length 45mm)	X	X									X	X									X		
	032230CL 032250CL 035100ACL	1 - 200 µL universal natural tip			X	X	X	X	X					X	X	X	X	X					X		
	032240CL 032260CL	1 - 200 µL universal yellow tip			X	X	X	X	X					X	X	X	X	X					X		
	027110CL 027120CL	10 - 1000 µL universal blue tip									X	X							X	X					
	134750CL 134760CL	50 - 1250 µL long tip									X	X							X	X					

FILTER AND STANDARD TIPS, HINGED LID RACK

Tips

CLEARLine® filter tips, racked, hinged lid

- Sterile filter tips
- Low-binding filter tips : maximal sample recovery for increased precision
- Universal compatibility

ClearLine®



Eco-friendly System!

Combine ClearLine® filter and non-filter tips to reduce waste:
Hinged lid boxes are also compatible with ClearLine® reload rack

Photo	Sterile filter tips Low Binding		Sterile tips without filter		Description	Int. pack.	Sale unit
	CAT. NO.		CAT. NO.	Volume (µl) Tray Color			
	713130		713136	10 red	10 µl graduated tip Length: 31.24 mm	10 x 96	960
	713114		713135	10 red	10 µl graduated long tip Length: 45.87 mm	10 x 96	960
	713115		-	20 yellow	20 µl graduated tip Length: 50.75 mm	10 x 96	960
	713116		-	100 yellow	100 µl graduated tip Length: 59.54 mm	10 x 96	960
	713117		713137	200 yellow	200 µl graduated tip Length: 59.54 mm	10 x 96	960
	713131		713138	300 green	300 µl graduated tip Length: 59.54 mm	10 x 96	960
	713118		713139	1000 blue	1000 µl graduated tip Length: 81.78 mm	8 x 96	768
	713119		713140	1250 blue	1250 µl graduated tip Length: 98.40 mm	8 x 96	768

NB: Picture are not in scale

Reload system



Reload tips system ClearLine® with hinger-lid rack
Empty box are sold separately

CLEARLine® reload system

- ▶ Quick, simple reload system
- ▶ Standard non-filter tips, non-sterile, compatible with most pipette brands
- ▶ Eco-friendly: cardboard packaging (reduces plastic waste)
- ▶ Space saving: requires 57% less space than other reload systems
- ▶ The non-filter tip racks from the reload system are compatible with the ClearLine® hinged lid boxes for filter tips (this system is a great way of easily reducing plastic waste)



Photo	CAT. NO.	Recharge standard	CAT. NO.	Recharge Low binding	Volume (µl)	Tray Color	Description	Int. pack.	Sale unit
	713128		713151		10	red	10 µl graduated tip Length: 31.24 mm	10 x 96	960
	713110		713147		10	red	10 µl graduated long tip Length: 45.84 mm	10 x 96	960
	713111		713148		200	yellow	200 µl graduated tip Length: 50.75 mm	10 x 96	960
	713129		713162		300	green	300 µl graduated tip Length: 59.54 mm	10 x 96	960
	713112		713149		1000	blue	1000 µl graduated tip Length: 81.78 mm	8 x 96	768
	713113		713150		1250	blue	1250 µl graduated tip Length: 98.40 mm	8 x 96	768

NB: Picture are not in scale

Empty boxes for reload system

CAT. NO.	Description	Internal packaging	Sale unit
713120	Empty boxes for Clearline® 10-300 µL racked tips	10	10
713121	Empty boxes for Clearline® 1000-1250 µL racked tips	8	8



Eco-friendly System!

Combine ClearLine® filter and non-filter tips to reduce waste:
Hinged lid boxes are also

compatible with ClearLine® reload rack



ONE TOUCH® BI-COMPONENT TIPS

The One Touch tip from Multi represents a major innovation in the field of liquid sample handling.

Revolutionary packaging, the cardboard rack E.DEK: limit your plastic waste! Thanks to the implementation of the two components, the pressure required for the installation of the One Touch tips on the pipette is a lot lower than when using traditional tips. It is therefore possible to pack One Touch tips in cardboard racks without them being crushed during handling. Insert the pipette into the tip (or the multichannel pipette into the row of 8 or 12 tips). A small amount of pressure is enough to install the tip with perfect impermeability. This unique, ecological presentation limits plastic waste and helps to protect the environment.

- ▶ Innovative production process: bi-component tip
- ▶ Tip's body in virgin polypropylene
- ▶ Upper part in flexible elastomer
- ▶ Optimally suited for most pipettes
- ▶ Optimal water resistance and accuracy
- ▶ A little pressure needed for the tip inclusion and ejection
- ▶ Greatly reduce the muscle fatigue of the operator
- ▶ Can be used in plastic racks or in cardboard E-DEK- bio-degradable racks
- ▶ Guarantee an optimal load in terms of use with multichannel pipettes
- ▶ Cardboard rack particularly resistant to prevent use crush
- ▶ The OneTouch racked without filter tip are autoclavable
- ▶ A revolutionary packaging: E.DEK cardboard rack to reduce quantity of plastic waste



Tip without filter

Rack in Plastic

Rack in Carton E.DEK

Tip	CAT. NO.	Units / Case	CAT. NO.	Units / Case
10/20 µl non sterile	010300	10 x 96	-	-
10/20 µl sterile	010310	10 x 96	010390	50 x 96
300 µl non sterile	010330	10 x 96	-	-
300 µl sterile	010340	10 x 96	010410	50 x 96
1000 µl non sterile	010360	8 x 96	-	-
1000 µl sterile	010370	8 x 96	-	-

Tip with filter

Rack in Plastic

Rack in Carton E.DEK

Tip	CAT. NO.	Units / Case	CAT. NO.	Units / Case
10/20 µl with filter, sterile	010320	10 x 96	010400	10 x 96
100 µl with filter, sterile	010510	10 x 96	-	-
300 µl with filter, sterile	010350	10 x 96	010420	10 x 96
1000 µl with filter, sterile	010380	8 x 96	010460 010450	8 x 96 12 x 64



Mpulti SORENSON ONE TOUCH PIPETTES

Precision micropipette, with a shock absorption system on the piston and a double volume adjustment.

- ▶ Less effort to load and eject tips
- ▶ Volume adjustable with one hand
- ▶ Fully autoclavable
- ▶ The One Touch Pipette is the ideal pipette for the One Touch Mpulti tips, but also perfectly suitable to any other tip brands

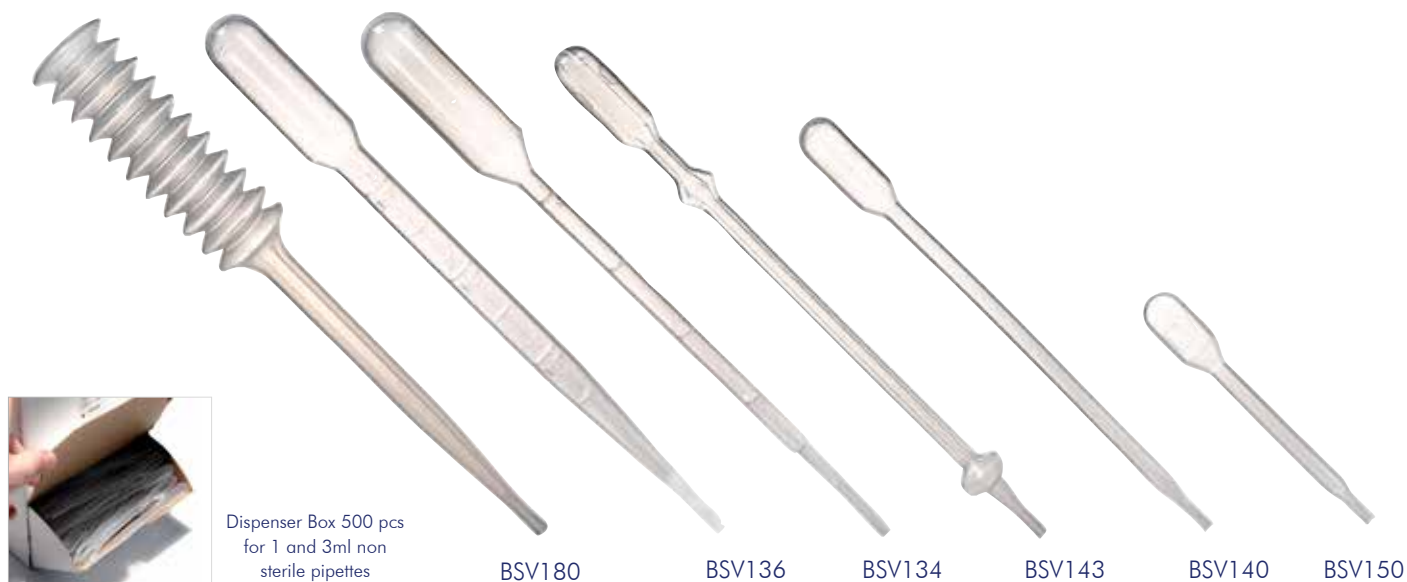
CAT. NO.	Description	Sale unit.
112740	One Touch pipette- single channel, 0.5 - 10 µl Mpulti	1
112750	One Touch pipette- single channel, 2 - 20 µl Mpulti	1
112760	One Touch pipette- single channel, 2 - 20 µl long ejector Mpulti	1
112770	One Touch pipette- single channel, 10 - 100 µl Mpulti	1
112780	One Touch pipette- single channel, 20 - 200 µl Mpulti	1
112790	One Touch pipette- single channel, 100 - 1000 µl Mpulti	1



PASTEUR PIPETTES

Single use transfer pipettes suitable for the vast majority of liquid handling in the laboratory. The integrated bulb contributes to a greater user safety. Our pipettes meet the requirements of routine work and those of more specific ones both.

- ▶ Graduated
- ▶ Flexible and non toxic polyethylene
- ▶ Available sterile and non
- ▶ Sterile, single packed or peel pack / 5 pcs
- ▶ Non toxic polyethylene



P.S. Volumes are only indicative. These devices have no primary-function of analytic measuring

Pasteur pipette: non sterile

CAT. NO.	BSV180	BSV136	BSV134	BSV143	BSV140	BSV150
Description	Pasteur Pipette 10 ml	3 ml Graduated	1 ml Graduated	For M-T Kit	For Fast Read kit	For Card Test
Length mm	160	160	160	148	125	70
Graduation ml	-	0.5	0.25	-	-	-
Bulb draw ml	1	3.5	3.5	1	1	1
Drop vol. µl	50	40	40	40	40	40
Internal packaging	6 dispenser of 250 pcs	6 dispenser of 500 pcs	6 dispenser of 500 pcs	6 bags of 500 pcs	6 bags of 1000 pcs	1 bags of 10000
Sale unit	case / 1500	case / 3000	case / 3000	case / 3000	case / 6000	case / 10000

Pasteur pipette: sterile, 1 and 3 ml

CAT. NO.	BSV135	BSV1351	BSV137	BSV1371
Description	1 ml Graduated	1 ml Graduated	3 ml Graduated	3 ml Graduated
Length mm	160	160	160	160
Graduation ml	0.25	0.25	0.5	0.5
Bulb draw ml	3.5	3.5	3.5	3.5
Internal packaging	peel pack of 5 pcs	individual peel pack	peel pack of 5 pcs	individual peel pack
Sale unit	case / 1000	case / 1000	case / 1000	case / 1000





INSTRUMENTATION PRODUCTS

For more details please visit:

<http://www.biosigma.com/instrumentation-products.html>

Biosigma is a world leader manufacturer of optical multisample cuvettes and cups utilizable in the most common clinical chemistry analyzers like as Hitachi, Cobas, Axsym, Express 500 and plus and others.

Made of high quality and transparency raw material, they are appositely studied to resist to washing solutions.

Our internal laboratory provides to test the cuvettes during production with the relevant chemistry analyzers.

INSTRUMENTATION PRODUCTS

CUVETTES AND CUPS UTILIZABLE ON COBAS®



Cuvettes in methacrylate, 12-cell available, single packed for handling and loading or in rack of 15 pcs for automatic loading



BSA84



BSA85



Microtube in PE utilizable on Cobas®

CAT. NO.	Color	Internal packaging	Sale unit
BSA024	neutral	bag / 500	case / 10000
BSA024/BLU	blue	bag / 1000	case / 12000
BSA024/G	yellow	bag / 1000	case / 12000
BSA024/RA	pink	bag / 1000	case / 12000
BSA024/V	green	bag / 1000	case / 12000

Cuvette

CAT. NO.	Internal packaging	Sale unit
BSA84	Single packed / 50	500
BSA85	30 racks of 15 pcs	450

Cobas® and Integra® are registered trade marks by ROCHE DIAGNOSTICS

CUVETTES AND CUPS UTILIZABLE ON HITACHI®



HITACHI® is a registered trade mark by HITACHI JAPAN



Cuvette utilizable on HITACHI® 902 in bionex

CAT. NO.	Internal packaging	Sale unit
BSA094	6 sectors of 8 cells	24 (4 sets of 6 sectors)



Polystyrene sample cup utilizable on HITACHI® vol. 3ml

CAT. NO.	Dimensions	Internal packaging	Sale unit
BSA031S	H 3.81 Ø1.21 cm, Ø1.70 (max)	bag / 250	case / 6000



Cuvette utilizable on HITACHI® 911/912 in bionex

CAT. NO.	Internal packaging	Sale unit
BSA098	6 sectors of 20 cells	24 (4 sets of 6 sectors)



Bionex single cuvette

CAT. NO.	Dimensions	Sale unit
BSA108	H 2.80 L 0.79 P 0.62 cm	Rack 200 pcs



Cuvette utilizable on HITACHI® 717/914 in methacrylate

CAT. NO.	Internal packaging	Sale unit
BSA096	6 sectors of 20 cells	24 (4 sets of 6 sectors)



Pediatric sample cup utilizable on Hitachi®, Elecsys®, Cobas Integra® and Core®

CAT. NO.	Dimensions	Internal packaging	Sale unit
BSA86	H 3.72 cm, Ø 0.90 cm (Ø max 1.67; Ø bottom 1.23 cm)	500 / bag	5000 / case

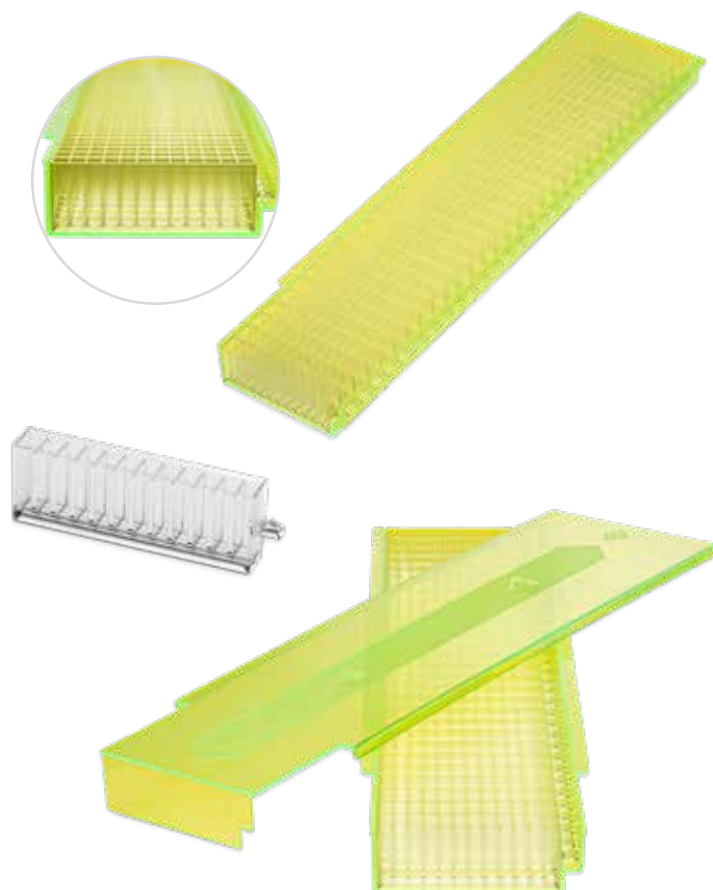
12 CELLS CUVETTE



- ▶ 12-cell cuvette in Methacrylate.
- ▶ Carton of 30 racks.
- ▶ Lid can be used directly as a charger during the loading of the cuvettes
- ▶ Pliers no longer needed to be used for the cuvettes loading
- ▶ Cuvette : H 2.00 L 5.20 D 0.86 cm



NEW CHARGER DESIGN



12 cells cuvettes

CAT. NO.	Internal packaging	Sale unit
BSP300	rack of 30 pcs	900 / case



Polystyrene sample cup: vol. 1.5 ml

CAT. NO.	Dimensions (cm)	Internal packaging	Sale unit
BSA027	H 2.30 Ø 1.36	bag / 1000	case / 10000

CUVETTES UTILIZABLE ON EXPRESS®



5-cell cuvette in rack of 13 pcs supplied with or without orange waste bags, utilizable on EXPRESS® 550 and PLUS.

Optic multisample cuvettes utilizable on EXPRESS® 550 and PLUS + 24 bags

CAT. NO.	Internal packaging	Sale unit
BSA656	Rack of 13 pcs	case / 100 racks + 24 waste bags
BSA655	Rack of 13 pcs	case / 200 racks

CEX sample cup utilizable on express® 550 and plus in polystyrene.

CAT. NO.	Dimensions	Internal packaging	Sale unit
BSA658	H 1.91 ø 1.25 cm	1000 / bag	12000 / case

CEX pediatric cup utilizable on express® 550 and plus in polystyrene.

CAT. NO.	Dimensions	Internal packaging	Sale unit
BSA659	H 1.91 Ø 1.25 cm	1000 / bag	12000 / case



BSA658



BSA659

EXPRESS® is a registered trade marks by Bayer

SAMPLE AND COAGULATION CUPS



- Made of high quality and transparent raw materials
- Tested in process with relevant analyzers



Sample cup utilizable on Olympus AU400/ AU640, in polystyrene

CAT. NO.	Dimensions (cm)	Internal packaging	Sale unit
BSA651	H 4.90 Ø 1.37 (max Ø 1.54)	bag / 1000	case / 3000



Coagulation sample cup with optagonal top profile, in polystyrene

CAT. NO.	Dimensions (cm)	Internal packaging	Sale unit
BSA5258	H 2.90 Ø 0.80	bag / 1000	case / 12000



Sample cup utilizable on Axsym in polystyrene

CAT. NO.	Dimensions (cm)	Internal packaging	Sale unit
BSA046	H 5.30 Ø 1.18, Ø 1.74(max)	bag / 1000	case / 4000



Coagulation cup, utilizable on ACCU COA DATA with metallic steel stick aside, in polystyrene

CAT. NO.	Dimensions (cm)	Internal packaging	Sale unit
BSA74	H 3.51 Ø 0.86	bag / 1000	case / 5000



Sample cup utilizable on TECHNICON Vol. 4 ml, in polystyrene

CAT. NO.	Dimensions (cm)	Internal packaging	Sale unit
BSA045	H 3.78 Ø 1.53	bag / 500	case / 5000



Coagulation cup utilizable on SEAC CLOT 2 with metallic steel stick, in polystyrene

CAT. NO.	Dimensions (cm)	Internal packaging	Sale unit
BSA77	H 3.47 Ø 1.34(max)	rack / 100	case / 1000



Sample cup utilizable on CENTRIFICHEM vol. 0.25 ml, in polystyrene

CAT. NO.	Dimensions (cm)	Internal packaging	Sale unit
BSA029	H 1.62 Ø 1.36	bag / 1000	case / 10000



Sample cup utilizable on Biotechnica Apparatus, in polypropylene

CAT. NO.	Dimensions (cm)	Internal packaging	Sale unit
BSA69	H 2.00 Ø 1.08	bag / 2000	case / 20000



Sample cup utilizable on TECHNICON vol. 1.5 ml, in polystyrene

CAT. NO.	Dimensions (cm)	Internal packaging	Sale unit
BSA027	H 2.30 Ø 1.36	bag / 1000	case / 10000



Cuvette utilizable on FIBRINTIMER with metallic mixers aside, in polystyrene

CAT. NO.	Dimensions (cm)	Internal packaging	Sale unit
BSA032	H 3.45 Ø 1.16	bag / 500	case / 10000



Sample cup utilizable on GENSEAC vol. 0.5 ml, in polystyrene

CAT. NO.	Dimensions (cm)	Internal packaging	Sale unit
BSA030	H 2.43 Ø 1.36	bag / 1000	case / 10000



Coagulation cup utilizable on Coag-Mat, in polystyrene

CAT. NO.	Dimensions (cm)	Internal packaging	Sale unit
BSA102	H 2.34 Ø 1.00	bag / 1000	case / 5000



Coagulation cup utilizable on Option, Benk, Trombotimer, in polystyrene

CAT. NO.	Dimensions (cm)	Metallic Mixers aside	Internal pack.	External pack.
BSA73	H 2.24 Ø 0.86		bag / 1000	case / 5000
BSA731	H 2.24 Ø 0.86	X	bag / 1000	case / 5000



Sample cup in PP utilizable on A.A.

CAT. NO.	Dimensions (cm)	Volume (ml)	Internal packaging	Sale unit
BSA88	H 4,9 Ø 1,98	2	500	5000

Axsym® is a registered trade mark by Abbott. Sismex® is a registered trade mark by Sismex Japan

EASY NEST CUPS



Easy nest cups used as reducers of Ø 13 and 16 mm test tubes

Nesting sample cup

CAT. NO.	Volume (ml)	Diameter (mm)	Dimensions (cm)	Internal packaging	Sale unit
BSA636S	1	13	H 2.97 Ø 0.94 (max Ø 1.38)	500 / bag	10000 / case
BSA646S	2	16	H 2.97 Ø 1.24 (max 1.67)	1000 / bag	8000 / case



BSA646S



BSA636S

SEMI-MICRO AND MACRO CUVETTES

Disposable spectrophotometer cuvettes in PS and PMMA

Plastic disposable cuvettes replacing fragile glass or quartz cuvettes in many applications that were previously beyond the range of plastic cuvettes. Designed for single use, they eliminate time-wasting washing, and the cross-contamination risk associated with washing and reusing cuvettes.

- ▶ Glass clear polystyrene or methacrylate
- ▶ Optimal results on both transmittance and absorbance tests compared with the most known brands in the market
- ▶ Applicable wavelength range 340 to 900 nm (PS) and 300 to 900 nm (PMMA)
- ▶ Path length 10 mm
- ▶ Maximum variability between the two walls of the same cuvette: <1%
- ▶ Direction arrow helping the correct insertion in spectrophotometer housings
- ▶ Ideal for determination of purity and concentration of proteins, DNA and RNA
- ▶ Will fit most commercial photometers without need for adapters
- ▶ Very high chemical resistance



Macro

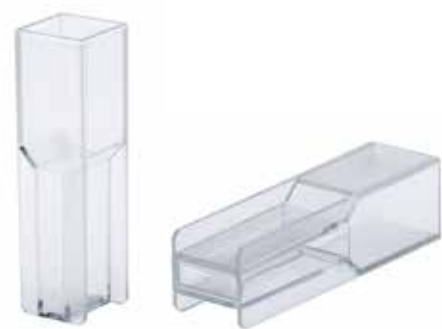


BSA001/BSA001M

Macro Cuvettes, volume 4 ml

CAT. NO.	Raw material	Dimensions (mm)	Internal packaging	Sale unit
BSA001	Polystyrene (PS)	12.5 x 12.5 x 45	rack / 100	1000
BSA001M	Methacrylate (PMMA)	12.5 x 12.5 x 45	rack / 100	1000

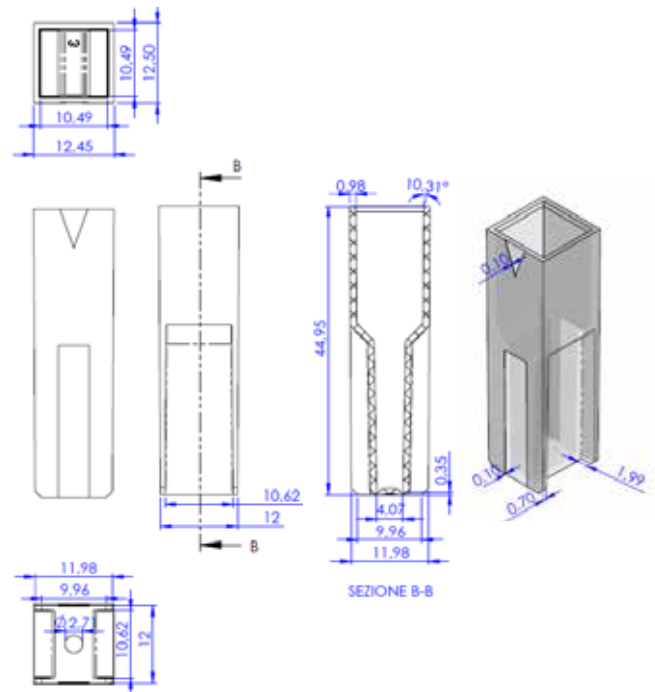
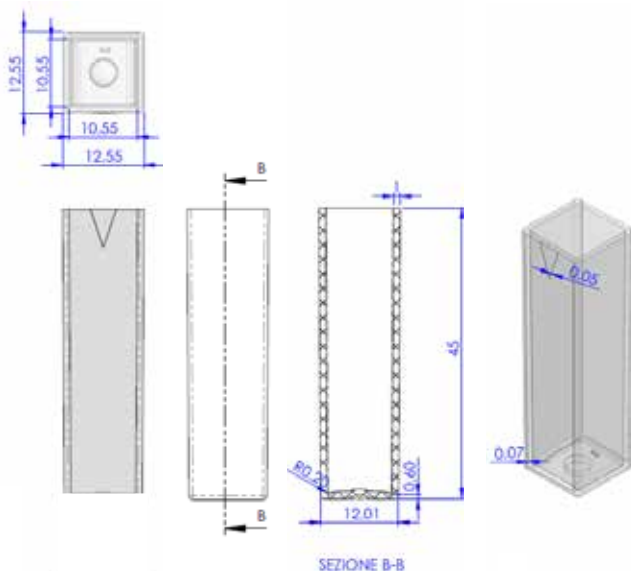
Semi-micro



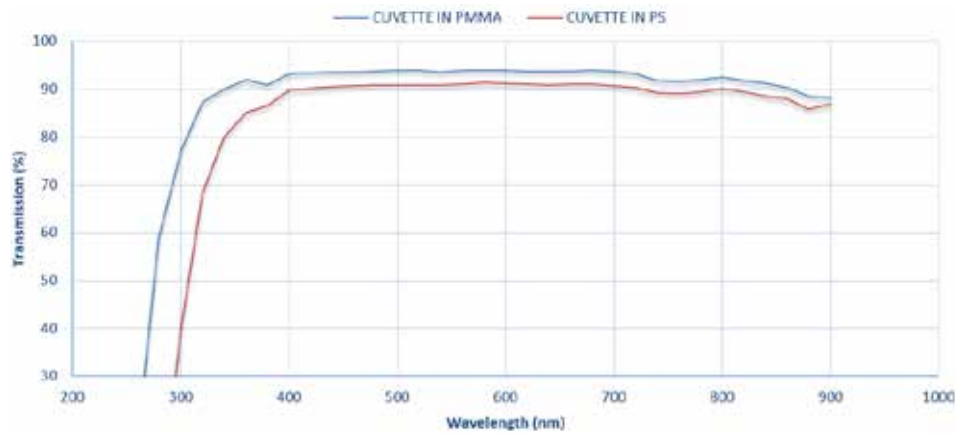
BSA002/BSA002M

Semi-Micro Cuvettes, volume 2 ml

CAT. NO.	Raw material	Dimensions (mm)	Internal packaging	Sale unit
BSA002	Polystyrene (PS)	12 x 6 x 45	rack / 100	1000
BSA002M	Methacrylate (PMMA)	12 x 6 x 45	rack / 100	1000



Cuvettes transmittance



Raw material	Polystyrene (PS)	Methacrylate (PMMA)
Applicable wavelength range	340-900 nm	300-900 nm
Minimum transmittance %	from 80% to 90%, between 340 and 800 nm	from 80% to 94%, between 300 and 800 nm
Maximum transmittance variability of cuvettes coming from the same box	1,6%	1,6%



- ▶ Packed in smart polyfoam boxes of 100 units
- ▶ Automatic packaging
- ▶ Innovative box shape allows an easy handling of cuvettes
- ▶ Grouped by mold cavity number. Single-cavity boxes grants the best repetitiveness for the cuvettes of the same box**

**** A plastic injection mold with 4 separate cavities can produce 4 cuvettes at a time. Minor dimensional variations between the cavities are unavoidable despite the most advanced technology. This may result in a greater variation of extinction values between cuvettes from different cavities. Therefore, cuvettes originating from the same cavity are automatically packaged into the same carton. For best results, use cuvettes from the same cavity number for each series of analyses.**

Quartz or Optical Glass Macro and Semi-Micro cuvettes

Quartz or Optical Glass Macro and Semi-Micro cuvettes for spectrophotometry

- ▶ Optical path 10 mm
- ▶ Each cell type is supplied in cartons of 2 pieces with Teflon lid

Raw material	Optical Glass	Quartz
Applicable wavelength range	320 – 2500 nm	190 – 2500 nm
Transmittance	350 nm ~ 82%	200 nm ~ 82%



BSA301



BSA303

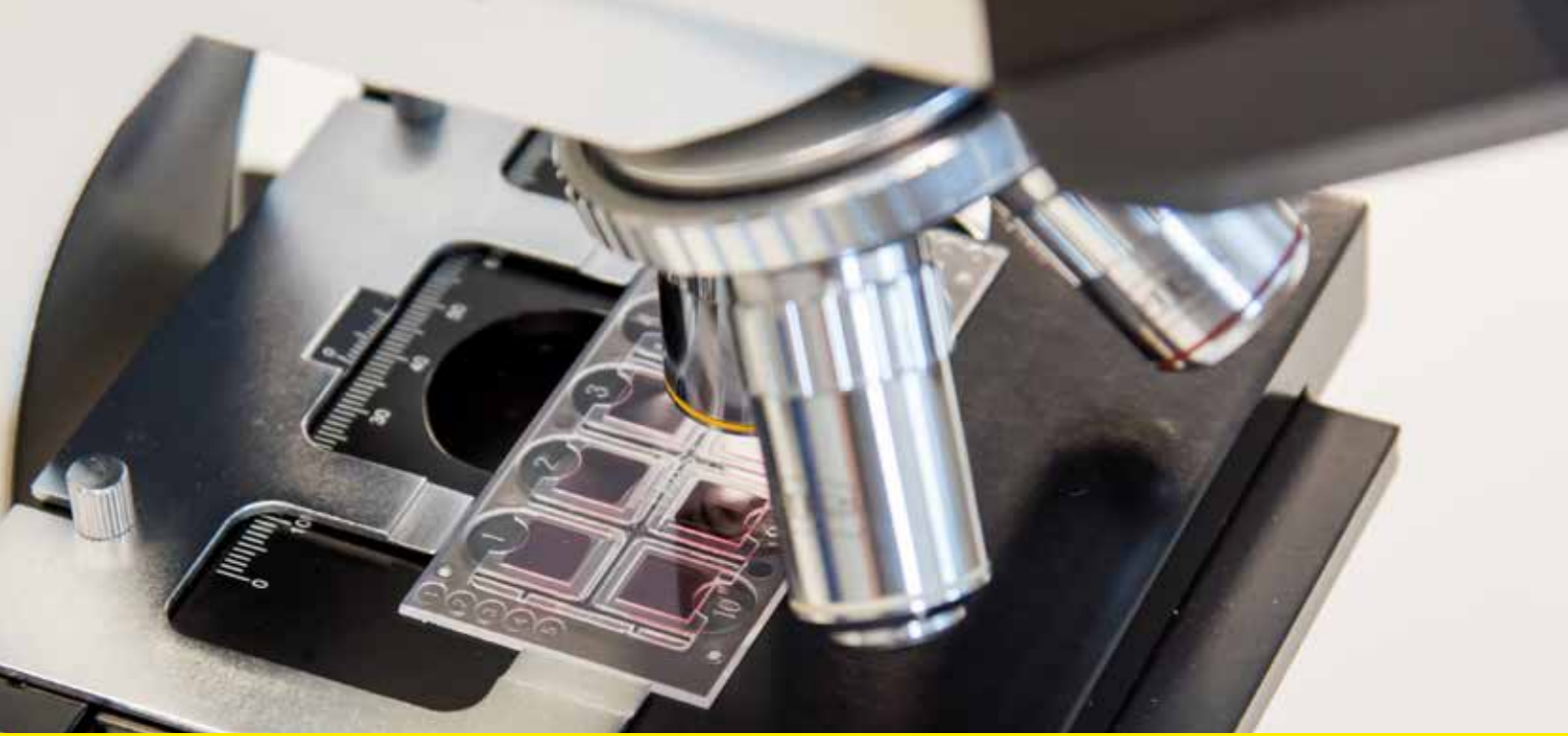


BSA305



Quartz or Optical Glass Macro and Semi-Micro cuvettes

CAT. NO.	Type	Raw material	Volume (ml)	Dimensions (cm)	Internal packaging	Sale unit
BSA300	Macro + lid	Optical Glass	3.5	45 x 12.5 x 12.5	2	1
BSA301	Macro + lid	Quartz	3.5		2	1
BSA302	Semi-Micro with sandblasted walls + lid	Optical Glass	1.4		2	1
BSA303	Semi-Micro with sandblasted walls + lid	Quartz	1.4		2	1
BSA304	Semi-Micro with black walls + lid	Optical Glass	1.4		2	1
BSA305	Semi-Micro with black walls + lid	Quartz	1.4		2	1



URINE READING SYSTEM

For more details please visit:

<http://www.biosigma.com/urine-reading-system.html>

URINE READING SYSTEM

FOR THE STANDARDIZATION OF MICROSCOPIC URINALYSIS

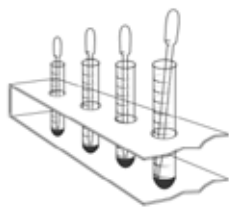
The FAST READ 102® system improves the standardization of microscopic urinalysis and provides precision and reproducibility to guarantee constant readings which will not be influenced by variations of techniques among different operators.

FAST READ 102® is made of a slide which is protected by an optically transparent film, with 10 independent chambers containing a standard volume of 7 μL . After dispensing the sample on the slide application area and thanks to a capillary mechanism, the sediment becomes homogeneously distributed in the reading chamber. Each chamber is fitted with its own system for the collection of excess urine to prevent any possible contamination. Furthermore FAST READ 102® slide allows easy identification of the sample by using the numbers printed on the sides.

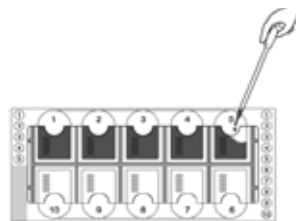
MATERIALS: The BVS100 device is manufactured in METHACRYLATE: rigid, transparent, resistant to atmospheric agents, it replaces the glass in every its applications reaching high temperatures (lower than 90-100 °C).



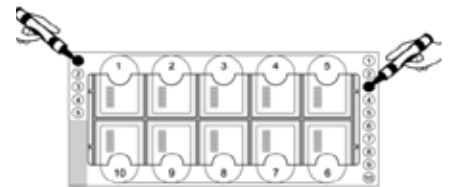
This product fulfils the requirements of Directive 98/79/EC on in vitro diagnostic medical devices



After completing the preparation of the urinary sediment by normal centrifugation, insert a pipette into the test tube and dispense one drop of STAIN.

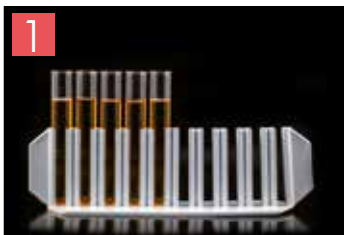


Use the pipette to mix the urinary sediment by repeatedly pressing the bulb; then dispense a drop of sample onto the appropriate area of the slide.



HOW TO USE THE NUMBERING SYSTEM
Example: For the identification of samples from number 131 to 140 mark number 1 on the left side and number 3 on the right side of the slide.

M-T system



Test Tube 10ml
BSP074

M-T microtips®
BSV143

During urine sedimentation count it is very important using always the same sample preparation method in order to have tests' repeatability.

With traditional urine reading system, actually used by many laboratories, sedimentation compaction creates a superimposition of epithelial cells causing difficulties in verifying the presence amount of different cells components.

With Biosigma M-T System it is possible to overcome those inconveniences in a few standardisation steps during sample preparation.

1. Fill BSP074 test tubes with 10ml of urine and then centrifuge
2. Insert tribulb M-T Microtips® BSV143 making sure to trap the tubes
3. Overturn the rack for the excess urine
4. You will get 1 ml of sediment, resuspended and ready to be analysed on Fast Read 102® Slides
5. Deposit a drop in the Fast Read 102® cell



M-T microtips® is a Biosigma's registered trade marks

CALCULATION METHOD FOR CELLS / μL IN URINARY SEDIMENT

FAST READ 102® is a disposable plastic device composed of 10 counting chambers. Each device allow to analyze 10 samples. Each room contains a GRID composed of 10 SQUARES divided into 16 smaller squares (called SECTORS). One advantage of using FAST-READ is to determine easily the specimen's number of cells per μL

1. Perform the count on a centrifuged fresh urine sample, after decantation
2. Gently resuspend the sediment
3. Using a pipette, introduce the sample into the well and examine under the microscope the area of the grid
4. Count the number of cellular elements within N squares

$$\text{Cell.} / \mu\text{L} = \frac{(\sum \text{cells counted in square N}) \times \text{concentration factor} \times 10}{N}$$

Concentration factor = Volume of sediment / Volume centrifuged urine
10: conversion from 0.1 μL to 1 μL

For uncentrifuged urine, don't multiply the number of cells counted for the concentration factor.

METHOD OF CELL COUNTS FOR DILUTED SAMPLES (CELLS / ML)

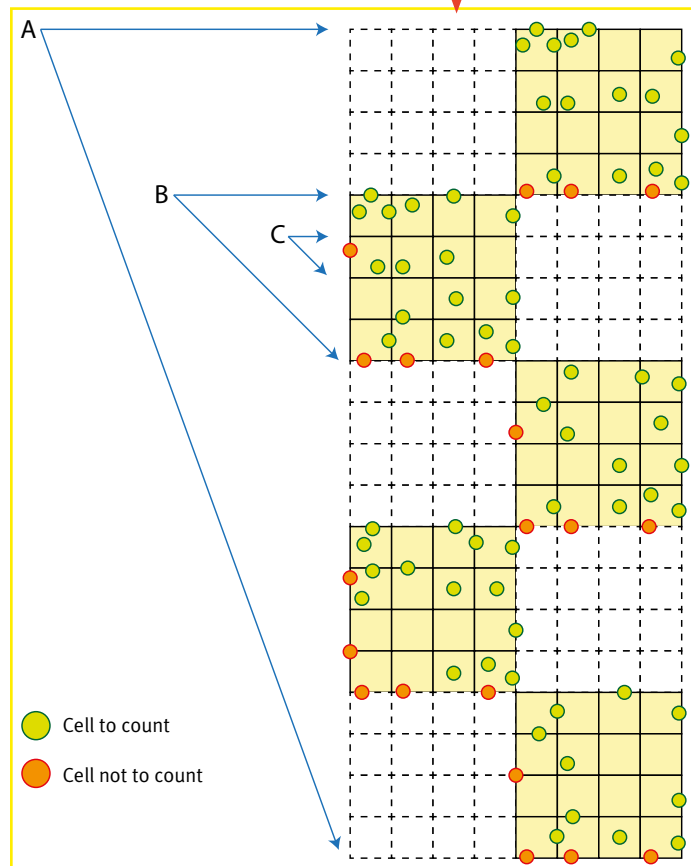
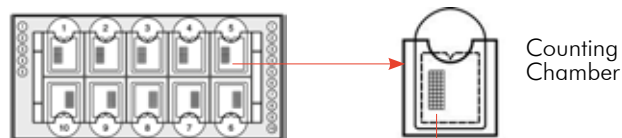
After filling the counting chamber with the sample, proceed with the counting of the cells distributed in N squares. Considering that the grid consists of 10 squares, each square has a Dimensions of 1 x 1 mm, a depth of 0.1 mm and a volume of 0.1 μL , the formula for determining the concentration of cells (cells / ml) is:

$$\text{Cells} / \text{ml} = \frac{(\sum \text{cells counted in square N}) \times \text{dilution factor} \times 10^4}{N}$$

10^4 = conversion 0.1 μL in 1 ml

Pay attention to the cells on the edges, you should only count those on either side, to avoid over or under counting risk.

In the example shown, we perform the cell counting of a sample diluted 100 times:
N = 5 (number of squares considered for counting) cells counted in 5 square = 67
Dilution factor = 10^2
[Cells / ml] = $(67/5) \times 10^2 \times 10^4 = 13.4 \times 10^6$



A: GRID

Dimensions	2 mm x 5 mm
Depth	0.1 mm
Volume	1 μL
Each grid includes	10 squares
Cell volume	7 μL

B: SQUARE

Dimensions	1 mm x 1 mm
Depth	0.1 mm
Volume	1 μL
Each square includes	16 sector

C: SECTOR

Dimensions	0.25 mm x 0.25 mm
Depth	0.1 mm
Volume of sector	0.00625 μL



Publication in scientific journal.

Validation of analytical methods in GMP: the disposable Fast Read 102® device, an alternative practical approach for cell counting.

Gunetti M, Castiglia S, Rustichelli D, Mareschi K, Sanavio F, Muraro M, Signorino E, Castello L, Ferrero I, Fagioli F.
J. Transl Med. 2012 May 31;10:112
www.Translational-medicine.com/content/10/1/112

URINE READING SYSTEM



How to order FAST-READ® kits

1 kit = 1.000 determinations

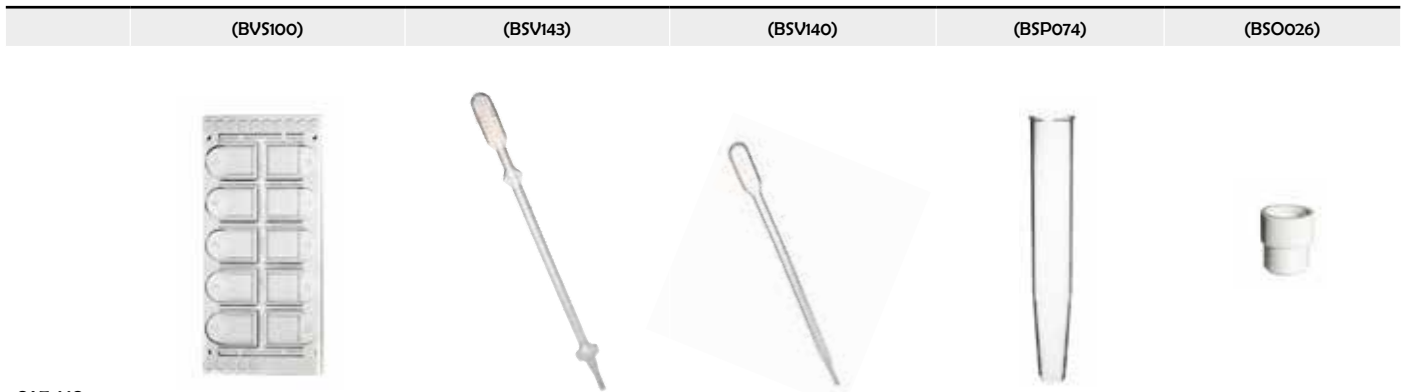
Fast-Read®
102

M-T
Microtips®

Pasteur Pipette in PE

Test Tube 10 ml
in PS

White Cap aside



CAT. NO.

BVS100	●				
BVS101	●		●		
BVS190		●		●	
BVS171	●	●			
BVS1715	●	●		●	
BVS1719	●	●		●	●

Stain urinary sediment

CAT. NO.	Description	Bottle (ml)	Sale unit
TBS135	Colouring of STERNHEIMER AND MALBIN	50	1
Aspect		Clear liquid purple-red	
Adsorbance (534 nm; EtOH 50%; dil. 0,25:200)		0,515 - 0,640	
Volume		50 ML	
Shelf-life		2 years	



Urinalysis controls validate performance for consistency and accuracy

KOVA® Urinalysis Controls Validate Performance for Consistency and Accuracy

For quality control, use KOVA controls to validate the performance of urine chemistry test strips and readers and to help focus microscopic sediment analysis.

KOVA Liqua-Trol™ is a ready-to-use bi-level liquid control for use with all major brands of urine chemistry dipsticks.



KOVA® Liqua-Trol™

Ready-to-use liquid control.

External quality control of physical, chemical and microscopic examination of urine specimens. Available with or without microscopic. Two levels of controls to monitor complete decision range for urine strip chemistries.

Value assignments available on all major systems for visual and instrument analysis.

Stability: 30 days at room temperature and up to 27 months shelf life for the full labeled dating when stored in a refrigerator (2-8°C).

Individual and Combination Packs

CAT. NO.	Description	Bottle (ml)	Sale unit
87112E	KOVA Liqua-Trol Level I (Abnormal) and Level II (Normal w/ hCG); bi-level 3x15mL	15	6
87122E	KOVA Liqua-Trol Level II (Normal) with hCG and microscopics	120	2
87176E	KOVA Liqua-Trol Level I (Abnormal) with microscopics	120	2
87123E	KOVA Liqua-Trol Level II (Normal) with hCG and microscopics	120	4
87177E	KOVA Liqua-Trol Level I (Abnormal) with microscopics	120	4

STAN-TAP & STAN-TAP SYSTEM



The STAN-TAP is a supplementary device to FAST-READ®

The standardization of urinary sediment analysis can now be simpler and more accurate. It is important that the examination of the sediment is carried out always following the same procedures in order to guarantee the repeatability of the test, which is difficult to obtain with the traditional system currently used in many laboratories. Furthermore, the compaction of the urinary sediment creates an overlap of epithelial cells making it difficult to verify the presence of other cellular elements.

System CE Mark IVD according to Dir.98 / 79 / CE and ss.mm.ii.

Advantages: The STAN-TAP allows rapid and repeatable preparation of the urinary sediment sample for microscopic analysis.



CAT. NO.	Description	Stan Tap	Test Tube 10 ml (BSP074)
BVS172	cap only	●	
BVS174	cap with tube aside	●	●



BVS174 INSTRUCTIONS FOR USE (cap with tube aside)

1. Fill the tube with the urine up to the level indicated by the maximum graduation on the tube (10 ml)

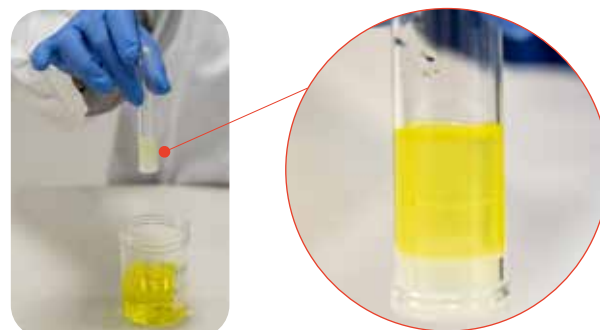


2. Centrifuge

3. Insert the Stan-Tap by exerting slight pressure to allow it to fit into the tube.



4. Decant excess urine by rapidly inverting the tube (by rotating 180°). The sediment and urine residue up to 1 ml will remain in the tube and will be retained in the gap between the tube and the Stan-Tap.



5. Bring the tube into a vertical position by rotating it 180°. Resuspend the sediment and proceed to the analysis.



ASSEMBLED STAN-TAP SYSTEM



Integrated system for the standardized preparation of the urinary sediment

The standardization of urinary sediment analysis can now be simpler and more accurate. It is important that the examination of the sediment is carried out always following the same procedures in order to guarantee the repeatability of the test, which is difficult to obtain with the traditional system currently used in many laboratories. Furthermore, the compaction of the urinary sediment creates an overlap of epithelial cells making it difficult to verify the presence of other cellular elements.

System CE Mark IVD according to Dir.98 / 79 / CE and ss.mm.ii.

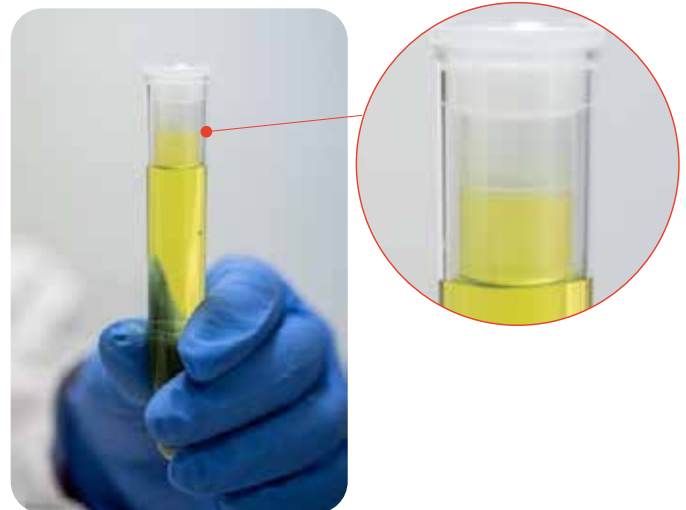
Advantages: The ASSEMBLED STAN-TAP SYSTEM allows rapid and repeatable preparation of the urinary sediment sample for microscopic analysis

CAT. NO.	Description	Stan Tap	Test Tube 10 ml (BSP074)
BVS1741	cap with tube assembled		



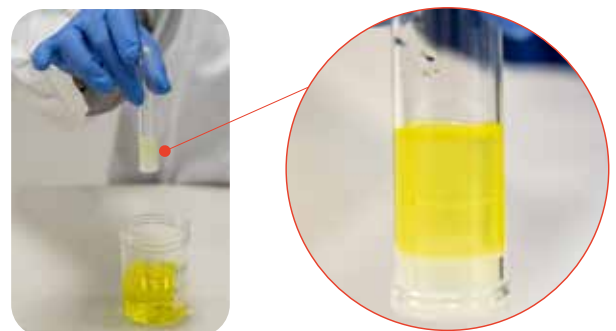
BVS1741 INSTRUCTIONS FOR USE (cap with tube assembled)

1. Fill the tube with the urine up to the level indicated in the STAN-TAP (corresponding to 10 ml)

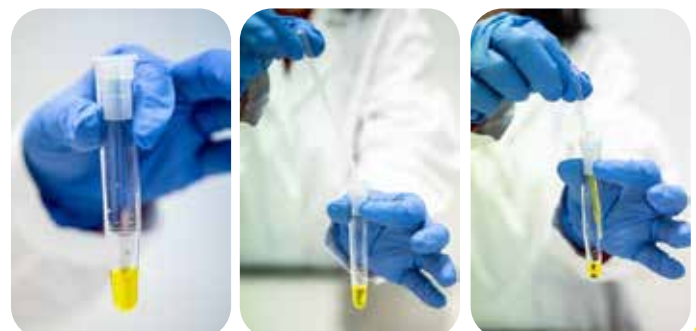


2. Centrifuge

3. Decant excess urine by rapidly inverting the tube (by rotating 180°). The sediment and urine residue up to 1 ml will remain in the tube and will be retained in the gap between the tube and the Stan-Tap.



4. Bring the tube into a vertical position by rotating it 180°. Resuspend the sediment and proceed to the analysis.





HISTOLOGY AND MICROSCOPY

For more details please visit:

<http://www.biosigma.com/histology-and-microscopy.html>

A wide range of products to Histology disposables like as Tissue Embedding and Biopsy cassettes with and without lid but also many other product to assist you to on transportation, storage and staining of microscope slides

Embedding cassette w/out lid



Embedding cassette without lid designed to accept standard metal lids

CAT. NO.	Color	Int. pack	Sale unit
BSI104	white	500	2000

Metal Lid



Metal Lid

CAT. NO.	Color	Int. pack	Sale unit
BSI220	Metal	10	20

Embedding ring

- ▶ External dimensions: 28 x 24 x 10mm
- ▶ Internal dimensions: 14,20 x 14 x 10mm

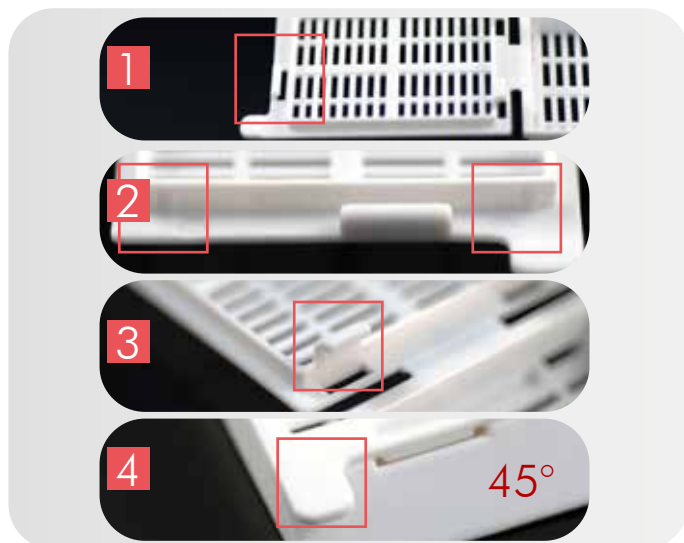


Embedding ring

CAT. NO.	Color	Int. pack	Sale unit
BSI4401	white	1000	3000

EMBEDDING CASSETTES

Embedding cassettes with removable cover, made of acetalic resin (POM), resistant to solvents, decalcificants, histological solutions and ultrasound techniques. Writing area for sample identifications. Also suitable to automatic printers



Innovative closing system

A Biosigma innovative closing system to avoid the cassette's accidental opening during sample processing but of easy use anyway.

Picture 1: A hook closure insertion in the cassette front part avoids any accidental opening in case of voluminous sample.

Picture 2: The presence of a special ribbed lid fitted with 2 rear hooks (**Picture 3**) prevents the forward movement and the cassette's rear opening.

Picture 4: The opening tab does not present sharp edges and is structured to allow operator easy opening. Anterior writing area at 45° angle.

Histology cassettes



Cassette in Pom detachable cover (40x28x7mm) with rettangular holes (5x1 mm)

CE IVD

Biopsy cassettes



Cassette in Pom detachable cover (40x28x7mm) with square holes (1x1 mm).

CE IVD

Histology cassette

CAT. NO.	Color	Internal packaging	Sale unit
BSI102	white	bag / 500	case / 2000
BSI1022	yellow	bag / 500	case / 2000
BSI1024	pink	bag / 500	case / 2000
BSI1026	green	bag / 500	case / 2000
BSI1027	orange	bag / 500	case / 2000
BSI1028	light blue	bag / 500	case / 2000

Biopsy cassette

CAT. NO.	Color	Internal packaging	Sale unit
BSI103	white	bag / 500	case / 2000
BSI1032	yellow	bag / 500	case / 2000
BSI1034	pink	bag / 500	case / 2000
BSI1036	green	bag / 500	case / 2000
BSI1037	orange	bag / 500	case / 2000
BSI1038	light blue	bag / 500	case / 2000

Mould base stainless steel



Mould base stainless steel

CAT. NO.	Internal dimensions	CAT. NO.	Internal dimensions	Sale unit
040728	7 x 7 x 5 mm	040731	30 x 24 x 5 mm	12
040729	15 x 15 x 5 mm	040732	37 x 24 x 5 mm	12
040730	24 x 24 x 5 mm			12

Histological sponge



Histological sponge

CAT. NO.	Color	Internal packaging	Sale unit
BSI105	blue	500	5000

MICROSCOPE SLIDES

- ▶ Particularly indicated for microscope analysis of blood, urine, tissue samples and other biological fluids for in vitro diagnostic analysis.
- ▶ Dimensions: 26 x 76 x 1.0-1.2 mm
- ▶ Thickness tolerances: 1.1 ± 0.1 mm
- ▶ Transparent glass
- ▶ In conformity with international standards and ISO 8255-1 ISO 8037-1



Microscope slides with paper

Microscope slides without paper



Microscope slides with paper

CAT. NO.	Dim (mm)	Corner	Cut edges	Ground edges	Frosted area	Int. pack.	Sale unit
VBS653/A	26 x 76	90°	X			50	2500
VBS654/A	26 x 76	90°	X		X	50	2500
VBS655/A	26 x 76	45°		X		50	2500

Microscope slides without paper

CAT. NO.	Dim (mm)	Corner	Cut edges	Ground edges	Frosted area	Int. pack.	Sale unit
VBS653	26 x 76	90°	X			50	2500
VBS654	26 x 76	90°	X		X	50	2500
VBS655	26 x 76	45°		X		50	2500
VBS656	26 x 76	45°		X	X	50	2500

Microscope slides color coded for easy identification

CAT. NO.	Dim (mm)	Corner	Colour	Ground edges	Frosted area	Int. pack.	Sale unit
VBS656/B	26 x 76	45°	white	X	X	50	2500
VBS656/AZ	26 x 76	45°	light blue	X	X	50	2500
VBS656/G	26 x 76	45°	yellow	X	X	50	2500
VBS656/RA	26 x 76	45°	pink	X	X	50	2500
VBS656/V	26 x 76	45°	green	X	X	50	2500
VBS656/AR	26 x 76	45°	orange	X	X	50	2500

COVERSLIPS

- ▶ Particularly indicated for microscope analysis of blood, urine, tissue samples and other biological fluids for in vitro diagnostic analysis.
- ▶ Thickness: 0.13 ± 0.17 mm
- ▶ Transparent glass



Coverslips

CAT. NO.	Dimensions (mm)	Thickness	Internal packaging	Sale unit
VBS633	18 x 18	0.13 ± 0.17 mm	200	2000
VBS634	20 x 20	0.13 ± 0.17 mm	200	2000
VBS636	22 x 22	0.13 ± 0.17 mm	200	2000
VBS637	24 x 24	0.13 ± 0.17 mm	200	2000
VBS638	24 x 32	0.13 ± 0.17 mm	100	1000
VBS649	24 x 40	0.13 ± 0.17 mm	100	1000
VBS650	24 x 50	0.13 ± 0.17 mm	100	1000
VBS651	24 x 60	0.13 ± 0.17 mm	100	1000

HISTOBOND® TRADEMARK BY PAUL MARIENFELD

HistoBond® adhesive microscope slides with silane treated surfaces for effective adhesion of tissue sections, glass, with ground edges 90°, approx. 76x26 mm (DIN ISO 8037-1), thickness approx. 1 mm, twin frosted 20 mm (at one end, both sides).



Histobond®

CAT. NO.	Dimensions (mm)	Internal packaging	Sale unit
VBS5001	76x26	100	2000

COVERSLIPS FOR AUTOMATIC MACHINES

Such coverslips are made of pure white borosilicate glass, perfectly clear and chemically resistant to the first hydrolytic class. They are suitable for automatic machine. Thickness of 0.16 to 0.19 mm.



Coverslips

CAT. NO.	Dimensions (mm)	Thickness	Internal packaging	Sale unit
VBS6502	24 x 50	0.16 to 0.19 mm	100	1000
VBS6512	24 x 60	0.16 to 0.19 mm	100	1000

PLASTIC TRAYS AND SLIDES MAILERS

- ▶ In polypropylene
- ▶ Snap closure for perfect tightness,
- ▶ For 26x76mm slides



Slide mailer in polypropylene

CAT. NO.	Dimensions (mm)	Places	Internal packaging	Sale unit
BSL923	98.8 x 50.6 x 6.4	1	10	500
BSL925	70 x 84 x 6	2	10	500
BSL924	84 x 97 x 6	3	10	500

- ▶ In polypropylene
- ▶ 2 places
- ▶ For 26x76mm slides



Plastainer slides mailer

CAT. NO.	Places	Sale unit
BSI101	2	1000

- ▶ In polypropylene
- ▶ Screw cap
- ▶ From 5 to 10 places
- ▶ 40 x 90 mm
- ▶ For standard microscope with loop for sealing applications



Slide mailer screw cap

CAT. NO.	Dimensions (mm)	Places	Internal packaging	Sale unit
BSL922	40 x 90	From 5 to 10	50	250

- ▶ In polystyrene
- ▶ From 10 to 40 places
- ▶ White color
- ▶ For standard microscope slides 26 x 76 mm



Microscope slides trays

CAT. NO.	Dimensions (mm)	Places	Sale unit
BSL671	34.0 x 10.0	10	40
BSL672	34.0 x 19.0	20	20
BSL673	34.0 x 40.0	40	10

STORAGE MICROSCOPE SLIDE BOXES

- ▶ In durable ABS raw material
- ▶ With numbered slots for 26x76mm slides
- ▶ Index-card for the classification
- ▶ Biohazard label on the top
- ▶ Hinged lid



Storage microscope slide boxes

CAT. NO.	Dimensions (mm)	Places	Sale unit
BSL274	3.0 x 5.0 x 8.0	12	15
BSL276	3.0 x 9.5 x 8.0	25	15
BSL277	3.0 x 8.0 x 20.0	50	15
BSL278	3.0 x 16.0 x 20.0	100	15

SLIDE STORING SYSTEM

- ▶ Ideal for storage of large quantities of 76x26 mm microscope slides.
- ▶ Each unit will accommodate 100 slides.
- ▶ Each cavity is numbered.
- ▶ Batch data can be written on either the inside or outside of the end plates.
- ▶ It is strongly recommended that the covers are used to avoid dust and other foreign bodies.
- ▶ MATERIAL ABS/PS



Slide storing system

CAT. NO.	Description	Dimensions (mm)	Raw Material	Internal packaging	Sale unit
BSL921	Storage rack 100 slides	360 x 38 x 100	PP	2	1
BSL920	Lid for rack, dust cover	345 x 35 x 40	PS	2	1

COPLIN STAINING JAR

A soda-lime glass jar with cap, Coplin type.

- ▶ For 5 slides -76x26mm (or 10 back-to-back slides)
- ▶ $\varnothing \times h = 73 \times 105$ mm



Coplin staining jar

CAT.NO.	Descriptions	Capacity	Sale Unit
068512	Coplin staining jar	5 slides 76x26 mm (or 10 back-to-back slides)	1

SCHIFFERDECKER STAINING BOX

A soda-lime glass box with top, Schifferdecker type

- ▶ For 10 slides 76 x 26 mm (or 20 back-to-back slides)
- ▶ L x l x h: 90 x 70 x 50 mm



Schifferdecker staining box

CAT.NO.	Descriptions	Capacity	Sale Unit
068511	Schifferdecker staining box	For 10 slides 76x26 mm (or 20 back-to-back slides)	1

HELLEDAHL STAINING JAR

A soda-lime glass jar with top, Helledahl type.

- ▶ For 8 slides 76x26mm (or 16 back-to-back slides)
- ▶ L x l x h: 58.5 x 58.5 x 100 mm



Simple STAINING JAR, Helledahl type

CAT.NO.	Descriptions	Capacity	Sale Unit
068509	Helledahl staining jar	For 8 slides 76x26 mm (or 16 back-to-back slides)	1

STAINING JAR WITH 2 LIDS

- ▶ PMP (TPX)
- ▶ Can be used with or without a polypropylene rack for 20 slides
- ▶ Opening lid which facilitates the use of the rack during the staining phases



Staining jar with 2 lids

CAT.NO.	Descriptions	L x w x h (mm)	Sale Unit
391057	Staining jar	81 x 101 x 70	1
391058	Holder for 20 slides	Rod height: 167 l x w: 70 x 86 (tank: 81 x 101)	1

OILS FOR IMMERSIONS

The means of immersion for microscopy have the same glass index of refraction. Thanks to oil immersion, the deviation of the light rays is almost completely eliminated and the performance objectives of the microscopes are therefore considerably improved.



CAT.NO.	Descriptions	Sale Unit
BS1114	Oil for immersion, 100 ml	1

EUKITT BALM FOR INCLUSIONS

- ▶ Early strenght
- ▶ Solidification in 20 minuts



CAT.NO.	Descriptions	Sale Unit
045798	Balm for inclusion - flacon of 100 ml	1
045799	Balm for inclusion - flacon of 250 ml	1

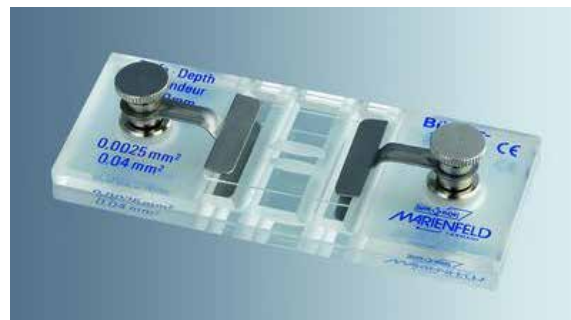
COUNTING CHAMBER

Dark line

The rooms of counts standards have grids counts engraved on the bottom of the chamber. Under the microscope the lines of the grid appear dark counts.

Bright line

The rooms of counts "bright line" have grids counts etched in a thin layer of metal. The lines appear bright, in contrast with the dark metallic background, facilitating the evaluation of cell suspensions.



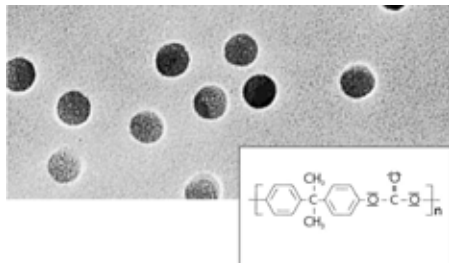
Counting chamber

Codice	Chamber type	With pliers	Grid type	Sale Unit
900510	Burker	pliers standard	bright line	1
900514	Fuchs-Rosenthal	pliers standard	dark line	1
900509	Nageotte	pliers double	dark line	1
900511	Neubauer improved	pliers double	dark line	1
900512	Thoma Cell Rete	with clips	dark line	1

- ▶ CE marked
- ▶ Products with special optical glass
- ▶ Tolerances of the depth of the chamber 2% (max)
- ▶ In compliance with DIN ISO 12847

MEMBRANE IN PC

Membrane in PC 5.0 μm 19 x 42 x 100



POLYCARBONATE MEMBRANES

- ▶ Cut-offs from 0.05 μm to 12 μm
- ▶ Non-sterile
- ▶ Diameter 13, 25, 37, 47 and 80 mm
- ▶ In boxes of 100



CAT.NO.	Descriptions	Sale Unit
036164	Membrane in PC 5.0 μm 19 x 42 x 100	100

CAT.NO.	Descriptions	Sale Unit
321009	Polycarbonate membrane, filtration threshold 5 μm , diameter 25 mm	100

MAKLER CELL

Counting cell with predetermined depth to obtain a monolayer of spermatozoides.

- ▶ Coverslip with grid with 100 squares measuring 0.1 mm across
- ▶ 10 μm space between the cell and the coverslip

Makler cell

CAT.NO.	Descriptions	Sale Unit
000972	Makler counting chamber	1
000973	Grid with squares for Makler chamber	1





MICROBIOLOGY

For more details please visit:

<http://www.biosigma.com/microbiology.html>

A wide choice of Microbiology products such as Petri dishes and inoculating loops, swabs, cell spreaders and a variety of centrifuge tubes

INOCULATION LOOPS

CE IVD

Disposable loops 1 and 10 μ l, sterile, in polypropylene. One side is provided of loop head and the other side of inoculating needle. The easy peel-pack open pouch enables fast and easy access to the product especially when wearing latex gloves. Peel-pack shows lot no and sterility expiry date. Peel pack can be of 5, 10, 20 units or single packed.

- ▶ In polypropylene
- ▶ 1 or 10 μ l
- ▶ Peel-pack

- ▶ Single, bag/5, Bag/10, Bag/20
- ▶ Sterile
- ▶ Lot No. and expiry date on each pack



10 μ l



Inoculation loop: 10 μ l

CAT. NO.	Case	Color	Internal packaging	Sale unit
BSV120	peel pack of 20 pcs	blue	bag / 2000	case / 10000
BSV1200	peel pack of 10 pcs	blue	bag / 200	case / 12000
BSV1205	peel pack of 5 pcs	blue	bag / 500	case / 4000
BSV1201	single packed	blue	bag / 350	case / 2100



Needle



10 μ l loop



Blue

1 μ l



Inoculation loop: 1 μ l

CAT. NO.	Case	Color	Internal packaging	Sale unit
BSV121	peel pack of 20 pcs	white	bag / 2000	case / 10000
BSV1210	peel pack of 10 pcs	white	bag / 200	case / 12000
BSV1215	peel pack of 5 pcs	white	bag / 500	case / 4000
BSV1211	single packed	white	bag / 350	case / 2100



Needle



1 μ l loop



White

STERILE L-SHAPED SPREADERS

Sterile L-shaped spreader with a curved end to avoid scratching the culture surface

CAT. NO.	Description	Rake length (mm)	Internal Packaging	Sale unit
999060B	Sterile L-shape spreader with curved right elbow, white colour	35	1	400
999059B	Sterile L-shape spreader ø 3 mm with curved right elbow, white colour	35	5	400
042820	L-shape spreader with curved end, sterile, blue colour	33	1	500
042821	L-shape spreader with curved end, sterile, blue colour	34	5	1000



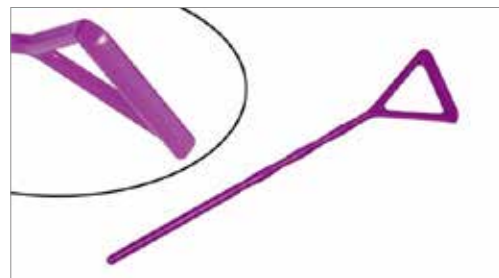
Sterile T-shaped spreader

CAT. NO.	Description	Rake length (mm)	Internal Packaging	Sale unit
042822	Sterile T-shape spreader single packed	35	single packed	500
042823	Sterile T-shape spreader (packs of 5)	35	packs of 5	1000
042824	Sterile T-shape spreader (packs of 10)	34	packs of 10	1000



Sterile rake shaped spreader, dimensions: 172 x 37 x 14 mm.
Easy to handle

CAT. NO.	Description	dimensions (mm)	Internal Packaging	Sale unit
037877	Sterile Disposable spreader	172 x 37 x 14	single packed	500



PETRI DISHES

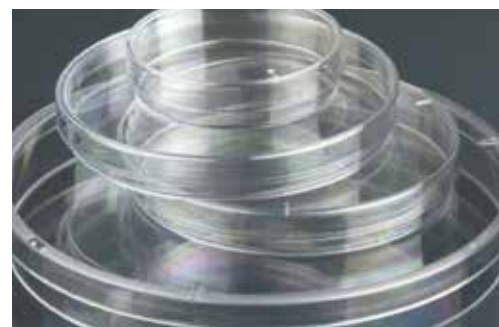
Disposable round petri dishes in transparent polystyrene, available sterile, not sterile, with and without vents for some specific automatic machines.

CAT. NO.	Ø mm	Ventilation	For autom. machines	Sterile	Internal packaging	Sale unit
BSM200	60			X	bag / 10	case / 1080
BSM212	90	X	X		bag / 20	case / 480
BSM2120	90	X	X	X	bag / 20	case / 480
BSM215	100	X		X	bag / 10	case / 500
BSM220	120			X	bag / 10	case / 320
BSM230	150	X		X	bag / 20	case / 220



- ▶ Made of crystal polystyrene, superior clarity
- ▶ Manufactured under aseptic ISO Class-7 conditions
- ▶ Aseptic
- ▶ Sub-packaged in plastic bags
- ▶ CE marking, as per EU Directive 98/79/EC
- ▶ Resin and packaging are free from heavy-metals, as per EC directive CE/94/62
- ▶ Suitable for food-contact, as per Regulation (EC) No 1935/2004
- ▶ Pouring-off temperature : 60°C

CAT. NO.	Description	Sale unit
076058	Petri dishes diam 55mm with ergot aseptic clearline	case / 1200
076059	Petri dishes diam 55mm without ergot aseptic clearline	case / 1200
076084B	Petri dishes diam 90mm with ergot s/s20 aseptic clearline	case / 500
076060B	Petri dishes diam 140mm with ergot aseptic clearline	case / 120



SWABS

Amies: The medium allows good conservation of beta-hemolytic streptococcus, intestinal pathogenic and *S. aureus* for over 3 days, of *N. gonorrhoeae* for 24 hours, of *B. pertussis* and *Fusobacterium* for 48 - 72 hours.

Amies with charcoal: The medium allows good conservation of beta-hemolytic streptococci, intestinal pathogenic and *S. aureus* for over 3 days, of *N. gonorrhoeae* for 24 hours, of *B. pertussis* and *Fusobacterium* for 48 - 72 hours. The vegetable carbon present in the medium improves the survival of *Neisseria gonorrhoeae* and of the intestinal pathogenic bacteria neutralizing the toxic metabolic products.

Stuart: Stuart's preparation was designed to preserve *Neisseriae Gonorrhoeae* and *Trichomonas Vaginalis* without permitting their proliferation. The medium has been shown to be suitable for transporting *Haemophilus Influentiae*, *streptococcus Pyogenes*, *Corynebacterium Diphtheriae*, *Enterobacteria* and Bacteria of the respiratory tract as well. Bacteria can survive up to 72 hours

Sterile swabs with cap in polyethylene, inserted in tube in polypropylene Ø 12x150mm with plastic or aluminum shaft.
Swab available dry or with various transport media: Amies, Amies with charcoal and Stuart.



BSM031

BSM030

Dry swab: wooden applicator 150 mm

CAT. NO.	Sterile	Length (mm)	Internal Packaging	Sale unit
BSM031	X	150	individually wrapped in box of 500	5000
BSM030		150	bag / 2000	10000

- ▶ Sterile
- ▶ Plastic or aluminium applicator
- ▶ Cotton swab
- ▶ Without medium
- ▶ Tubes in polypropylene
- ▶ Medical Device class IIA sterile



BSM032

BSM032/M

Sterile swab with applicator. Tube Ø12x150mm in polypropylene without medium

CAT. NO.	Applicator material	Cap color	Internal Packaging	Sale unit
BSM032	Plastic	white	100	1000
BSM032/M	Aluminum	orange	100	3000

- ▶ Sterile
- ▶ Plastic or aluminium applicator
- ▶ Single packed peel pack
- ▶ Viscose swab
- ▶ Applicator aside
- ▶ With medium
- ▶ Tube in polypropylene
- ▶ Medical Device class IIA sterile



BSM001

BSM004/M

Sterile swab with medium

CAT. NO.	Medium	Applicator material	Cap color	Internal Packaging	Sale unit
BSM001	Stuart	Plastic	red	150	900
BSM001/M	Stuart	Aluminum	red	150	900
BSM003	Amies	Plastic	blue	150	900
BSM003/M	Amies	Aluminum	blue	150	900
BSM004	Amies + Charcoal	Plastic	black	150	900
BSM004/M	Amies + Charcoal	Aluminum	black	150	900

- ▶ Sterile
- ▶ Length 150 mm
- ▶ Single packed peel pack



BSM011

Sterile wooden tongue depressor: single packed wrapped, sterile

CAT. NO.	Sterile	Length (mm)	Internal Packaging	Sale unit
BSM011	X	150	Single packed	100

FOAM SWABS WITH LIQUID COLLECTION-TRANSPORT MEDIUM

INTENDED PURPOSE

Swab Intended purpose is **"MEDICAL DEVICE" CLASS II/STERILE**. Swabs are sterile and ready-for-use systems intended for clinical samples drawing, transport and maintenance for cultural exam. The swab is suitable for short contact with the human body including surgical wounds. Test Tubes are classified as IVD and are intended only for the preservation of samples. Product must be used as directed, Microbiotech is not responsible for any unauthorized use.

For professional use only.

National classification of medical devices (CND - For Italian law) > **V901302** (Transport swabs for collection sample)

APPLICATOR

Special polyurethane foam, medical grade, swab tip that allows a better clinical sample collection and the following immediate release into the liquid transport medium. The soft foam bud is more comfortable for patients, and has significant advantages for both conventional and molecular methods. It has a **plastic shaft with "breakpoint"** to allow the swab breaking into the test tube and the successive collection by the screw "capture" cap after the tube closing. It allows to dispose of the swab together with the cap in a safer way.

Available in two versions on sampling site base:

1. Standard tip: swabs, standard dimensions, for buccal, nasal, throat, vagina, rectal, cutaneous and wound sampling; this specialty applicator is tipped with medical grade polyurethane foam. It is bonded securely to the plastic handle. The best choice for buccal swab, for general specimen collection for testing and screening. Used in Pediatrics, Ophthalmology, Veterinary care, and oropharyngeal applications.



Overall Length: 152.4 mm (6")

Tip Ø 4.775 mm (0.188") - Length 16.002 mm (0.63")

Handle Ø 2.54 mm (0.1") - Length 149.225 mm (5.875")

2. Fine tip: swabs, small dimensions, for paediatric, urethra, urogenital and nasopharyngeal sampling. The special small applicator is tipped with medical grade polyurethane foam. It is bonded securely to the plastic handle. The best choice for paediatric, urethral and nasopharyngeal applications.



Overall Length: 152.4 mm (6")

Tip Ø 1.981 mm (0.078") - Length 17.45 mm (0.687")

Handle Ø 2.159 mm (0.085") tapered to Ø 1.016 mm (0.040") - Length 148.539 mm (5.848")

TEST TUBE

Liquid Transport Medium is contained in a cylindrical test tube **Ø 13x80 mm**, in transparent, unbreakable medical polypropylene (PP), to preserve sample and users safety. With screw cap in polyethylene (HDPE) with **"capture cap" technology**, The specific color cap identifies instantly and secure the medium content. Pre-labelled on test tube to allow a correct patient and sample identification. Item code, lot number and expiry date printed on each label for a full traceability.

AMIES LIQUID TRANSPORT MEDIUM



Swabs with pink screw cap test tube containing 1 ml of liquid AMIES transport medium for the sampling and preservation of aerobes, anaerobes and other fastidious bacteria such as *Streptococcus pyogenes*, *Neisseria gonorrhoeae*, *Bacteroides fragilis*, *Haemophilus influenzae*, *Streptococcus pneumoniae*, etc within 48 hours (24 hours for *Neisseria gonorrhoeae*) at room or refrigerated temperature.

They can be used for the collection and preservation of mycobacterium and fungi.

Amies is a medium of conservation consisting of inorganic phosphate, calcium and magnesium salts and sodium chloride with a reduced environment due to the presence of sodium thioglycollato.

CAT. NO.	Description	Sale unit
BSM080	Standard tip	600pcs (6x100pcs)
BSM081	Fine tip	600pcs (6x100pcs)

STUART LIQUID TRANSPORT MEDIUM



Swabs with blue screw cap test tube containing 1 ml of liquid STUART transport medium for the sampling and preservation of bacteria *Neisseria gonorrhoeae*, *Trichomonas vaginalis*, *Haemophilus influenzae*, *Bacteroides fragilis*, *Pseudomonas aeruginosa*, *Streptococcus pneumoniae*, *Streptococcus pyogenes*, *Corynebacterium diphtheriae*, enterobacteria and bacteria of the upper respiratory tract. These microorganisms are kept viable for no more than 24 hours. More resistant bacteria are kept for 72 hours; rule of thumb is, however, to submit to the microbiological analysis, as soon as possible, all samples.

CAT. NO.	Description	Sale unit
BSM082	Standard tip	600pcs (6x100pcs)
BSM083	Fine tip	600pcs (6x100pcs)

CARY BLAIR LIQUID TRANSPORT MEDIUM



Swabs with green screw cap test tube containing 2 ml of liquid CARY BLAIR transport medium, for the fecal or rectal clinical samples and for preservation of enteric pathogens agents as *Salmonella*, *Vibrio*, *Escherichia coli*, *Shigella flexneri*, *S. typhimurium*, *E. faecalis* (VRE), *V. parahaemolyticus*, *Y. enterocolitica*, *C. jejuni*, *C. difficile*, *Campylobacter*. The Cary Blair Transport Liquid Medium is especially suitable in epidemiological investigations for *Vibrio parahaemolyticus*, rectal swabs, especially when they have to be transported to a central diagnostic laboratory.

CAT. NO.	Description	Sale unit
BSM084	Standard tip	600pcs (6x100pcs)
BSM085	Fine tip	600pcs (6x100pcs)

SELENITE LIQUID MEDIUM



Swabs with white screw cap test tube containing 2 ml of liquid medium SELENITE (Selenite broth) type for the fecal clinical samples or rectal swab, designed for the transportation, survival and isolation of *Salmonella enterica* and *Shigella sonnei*, reducing the growth of the other enteric pathogens like *Escherichia coli* and fecal streptococci. The selenite present in the medium inhibit microorganisms other than *Salmonella*, particularly coliforms and enterococci. *Pseudomonas* and *Proteus* are not inhibited. Dipotassium phosphate maintains constant pH and reduces the toxicity of selenium.

CAT. NO.	Description	Sale unit
BSM086	Standard tip	600pcs (6x100pcs)
BSM087	Fine tip	600pcs (6x100pcs)

SALINE SOLUTION



Swabs with light blue screw cap test tube containing 2 ml of sterile buffered saline sodium chloride solution, pH 7.2. Particularly suitable to obtain immediately a ready to use dilute clinical sample solution for inoculation and analysis.

CAT. NO.	Description	Sale unit
BSM088	Standard tip	600pcs (6x100pcs)
BSM089	Fine tip	600pcs (6x100pcs)

FOAM TRANSPORT SYSTEM FOR VIRUS, CHLAMYDIA, MYCOPLASMA AND UREAPLASMA



Devices ready to use, composed by a foam swab with a plastic shaft and a test tube with screw cap containing a room temperature stable viral transport medium, suitable for the transportation and preservation of Viruses (such as Influenza H1N1), Chlamydia, Mycoplasma and Ureaplasma specimens. The Devices standard dimensions make them suitable both for use with automatic instruments whether for manual use. The liquid medium type allows to dilute the samples easily and rapidly obtaining a homogeneous solution ready to be used and appropriate in order to obtain many samples equal rates to carry out different analysis.

Foam Virus Liquid Swabs are packed in peel-pack, easy opening for the Devices optimal protection. The Devices are produced according to GMP (Good Manufacturing Practice), classified and certified as Medical Devices.

Foam Virus Liquid Swabs are sterile (SAL 10⁻⁶), Pyrogen free & Latex free.

CE MD marked sterile Swab-manufactured in compliance with 93/42/EC Directive (Italian D.lgs 46 del 24/02/1997) + 2007/47/EC CE IVD marked sterile Test Tube with medium - manufactured in compliance with 98/79/EC Directive (Italian D.lgs 332 del 08/09/2000)

CAT. NO.	Volume	Description	Sale unit
BSM090	1 ml	Standard tip	600pcs (6x100pcs)
BSM091	1 ml	Fine tip	600pcs (6x100pcs)
BSM092	3 ml	Standard tip	600pcs (6x100pcs)
BSM093	3 ml	Fine tip	600pcs (6x100pcs)



TEST TUBES, STOPPERS, RACKS

For more details please visit:

<http://www.biosigma.com/test-tubes-stoppers-racks.html>

STERILE POLYSTYRENE CENTRIFUGE TUBES WITH SCREW CAPS

- ▶ Sterile
- ▶ In polystyrene
- ▶ Screw cap
- ▶ Conical or cylindrical bottom

CAT. NO.	Volume (ml)	Dimensions (mm)	Bottom	Graduation	Label	Cap	Internal packaging	Sale unit
BSM470	10	Ø 16 x 100	cylindrical			red	bag / 200	case / 1200
BSM470/CS	10	Ø 16 x 100	cylindrical			red	single packed	case / 750
BSP2501	10	Ø 16 x 100	conical			white	bag / 150	case / 450



BSM470

BSP2501

TEST TUBES, STOPPERS, RACKS

CLEARLine® CENTRIFUGE TUBES

CLEARLine centrifuge tubes are applicable in molecular biology as disposable laboratory consumables which are manufactured from high transparency polypropylene. Two types of volume are available to meet general need: 15 ml and 50 ml. A ring molded on inner surface of cap make an excellent seal to prevent leak of liquid. Marking area is printed in white to make tube easy for identification. Clearly graduation in black on the surface is helpful for users to calibrate. Preferably, 3 ml graduation molded on conical bottom improves the accuracy of centrifuge tube.

All CLEARLine centrifuge tubes are packaged in bags or racks with sterilization, RNase-free, DNase-free and Non-pyrogenic.

- ▶ 15ml and 50ml volume
- ▶ High transparency polypropylene
- ▶ Molded ring in the cap inner surface grants an excellent seal to prevent leak of liquid
- ▶ White writing area for easy identification
- ▶ Black graduation
- ▶ Conical and self-standing bottom
- ▶ Can be centrifuged up to 14,800 x g for 50 ml and 10,280 x g for 15 ml centrifuge tubes
- ▶ Sterilised at gamma rays SAL 10⁻⁶
- ▶ RNase-free, DNase-free and Non-pyrogenic
- ▶ Autoclavable at 121 °C during 20 min.

Packaging information:

- ▶ Lot number is printed on packaging for tracking
- ▶ Heat-sealed bag, reusable zip bag
- ▶ PS rack, heat shrinking pack

CLEARLine®
"Be cool, be safe, be CLEARLine"



CL482

CL474

CL477



CL475

CLEARLine Centrifuge tube-15-50 ml

CAT. NO.	Vol. (ml)	Dimensions (mm)	Centrifugation speed	Bottom style	Raw Material	Rack	Certifications	Inner Bag	Sale unit
CL474	50	116 x 28	12000 r/min; 14800 x g	Conical	polypropylene		RNase-free DNase-free Non-pyrogenic Sterile	25	500
CL475	50	116 x 28	12000 r/min; 14800 x g	Conical		X		25	500
CL477	50	118 x 28	12000 r/min; 14800 x g	Self standing				25	500
CL482	15	120 x 16	10000 r/min; 10280 x g	Conical				25	500
CL490	15	120 x 16	10000 r/min; 10280 x g	Conical		X		50	500

STERILE POLYSTYRENE TEST-TUBES WITH PRESSURE CAPS

- ▶ Sterile
- ▶ In polystyrene
- ▶ Pressure yellow or red cap
- ▶ Cylindrical or conical bottom
- ▶ Graduated

CAT. NO.	Volume (ml)	Dimensions (mm)	Bottom	Graduation	Label	Cap	Sterile	Sale unit
BSM416	5	Ø 12 x 86	cylindrical	2.5 / 5 ml	X	yellow	X	case / 3000
BSM400	10	Ø 16 x 100	cylindrical	2.5 / 5 / 10 ml		yellow	X	case / 1800
BSM402	10	Ø 16 x 100	cylindrical	2.5 / 5 / 10 ml	X	red	X	case / 1250
BSM408	10	Ø 16 x 100	conical	1/2,5/5/10 ml		yellow	X	case / 2000
BSM410	10	Ø 16 x 100	conical	1/2,5/5/10 ml	X	red	X	case / 800



BSM416

BSM400

TEST TUBES, STOPPERS, RACKS

VACUUM TUBES FOR URINE ANALYSIS

- ▶ Sterile
- ▶ In rack of 100 pcs
- ▶ Labelled
- ▶ Yellow cap



Cylindrical urine test-tube with yellow cap, in rack

CAT. NO.	Description	Dimensions (mm)	Label	Boric Acid	Sale unit
BV057R	for 4 ml of urine	13 x 75	X		100
BV058R	for 6 ml of urine	13 x 100	X		100
BV059R	for 10 ml of urine	16 x 100	X		100
BV060R	for 10 ml of urine	16 x 100	X	X	100

VACUUM URINE CONTAINERS

Vacuum urine container 120 ml in polypropylene with screw cap, with frosted side

- ▶ Sterile or not sterile
- ▶ Container in polypropylene
- ▶ Cap in polyethylene



Single packed

Vacuum urine container

CAT. NO.	Volume (ml)	Sterile	Raw Material	Internal packaging	Sale unit
BSC200	120	X	PP	Single packed	case / 250
BSC201	120		PP	Single packed	case / 250
BSC202	120		PP	in bulk	case / 300

SERUM SEPARATOR TUBES IN RACK



Tubes housed in a rack of 50 pcs. Speed of rotation in centrifuge 3,500 (rpm).

- ▶ With separator granular and coagulation accelerator
- ▶ In rack of 50 pcs
- ▶ White stopper
- ▶ Centrifugal speed 3,500 (rpm)



Blood collecting tube with granular separator and coagulation accelerator

CAT. NO.	Volume (ml)	Dimensions (mm)	Bottom	Raw material	Stopper	Rack	Sale unit
BSTA18	10	Ø 16 x 100	cylindrical	polypropylene	white	X	case / 1000
BSTA21	10	Ø 16 x 100	cylindrical	methacrylate	white	X	case / 1000
BSTA33	4	Ø 13 x 75	cylindrical	methacrylate	white	X	case / 1000



BSTA18

BSTA21

BSTA23

BSTA33

TEST TUBES WITH TWO-POSITION CLOSURE CAP

In polystyrene, graduated (or non) and sterile. The particularly shaped two-position cap allows, with a light touch, a good aeration of the contents and, with a stronger pressure, to obtain a leakproof closure.

CAT. NO.	Volume (ml)	Dimensions (mm)	Bottom	Grad.	Label	Cap	Internal packaging	Sale unit
BSF2054	5	Ø 12 x 75	cylindrical	X	engraved	X	bag / 25	case / 500
BSF2054/K	6	Ø 12 x 75	cylindrical			X	bag / 250	case / 1000
BSF2054/CS	5	Ø 12 x 75	cylindrical	X	engraved	X	individually wrapped	case / 500
BSF2051	15	Ø 17 x 100	cylindrical	X	engraved	X	bag / 50	case / 500
BSF2051/CS	15	Ø 17 x 100	cylindrical	X	engraved	X	individually wrapped	case / 500



BSF2051

BSF2054/K



TEST TUBES, STOPPERS, RACKS

NON STERILE TEST-TUBES



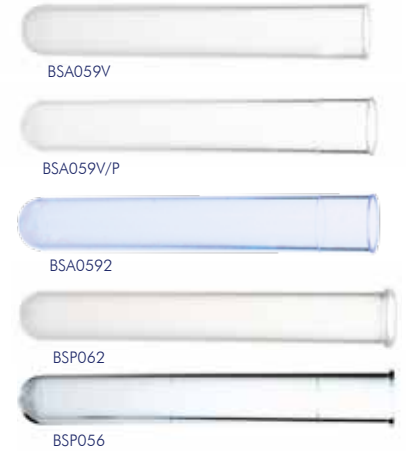
3 ml volume tube

CAT. NO.	Dimensions (mm)	Bottom	Raw material	Rim	Graduation (ml)	Note	Label	Internal packaging	Sale unit
BSA060	Ø 11 x 70	cylindrical	polystyrene			for R.I.A.		bag / 1000	case / 6000
BSP068	Ø 12 x 51	flat	polypropylene	X	1.25 / 25 / 2.5			bag / 1000	case / 5000
BSP069	Ø 12 x 51	flat	polypropylene	X	1.25 / 25 / 2.5		X	in bulk	case / 7000
BSP082	Ø 12 x 51	flat	polystyrene	X	1.25 / 25 / 2.5			in bulk	case / 7000
BSP083	Ø 12 x 51	flat	polystyrene	X	1.25 / 25 / 2.5		X	in bulk	case / 7000



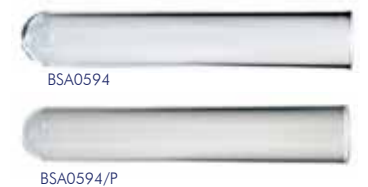
5 ml volume tube

CAT. NO.	Dimensions (mm)	Bottom	Raw material	Rim	Graduation (ml)	Color	Label	Internal packaging	Sale unit
BSA059V	Ø 12x75	cylindrical	polystyrene			neutral		bag / 1000	case / 4000
BSA059V/P	Ø 12x75	cylindrical	polypropylene			neutral		bag / 1000	case / 4000
BSA0592	Ø 12x75	cylindrical	polystyrene			blue		bag / 1000	case / 4000
BSP056	Ø 12 x 86	cylindrical	methacrylate	X	2.5 / 5	neutral		bag / 1000	case / 5000
BSP062	Ø 12 x 86	cylindrical	polypropylene	X	2.5 / 5	neutral		in bulk	case / 4000
BSP063	Ø 12 x 92	cylindrical	polypropylene	X	2.5 / 5	neutral	X	in bulk	case / 3600
BSP076	Ø 12 x 86	cylindrical	polystyrene	X	2.5 / 5	neutral		in bulk	case / 4000
BSP077	Ø 12 x 92	cylindrical	polystyrene	X	2.5 / 5	neutral	X	in bulk	case / 3600



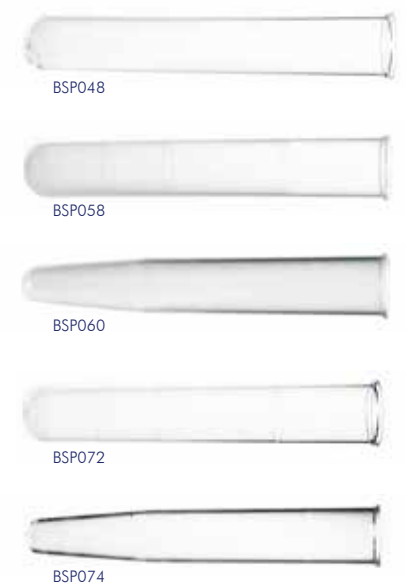
Rimless test-tube 13x75mm

CAT. NO.	Volume (ml)	Dimensions (mm)	Bottom	Raw material	Color	Internal packaging	Sale unit
BSA0594	6	Ø 13x75	cylindrical	polystyrene	neutral	bag / 1000	case / 4000
BSA0594/P	6	Ø 13x75	cylindrical	polypropylene	neutral	bag / 1000	case / 4000



10 ml volume tube

CAT. NO.	Dimensions (mm)	Bottom	Raw material	Rim	Graduation (ml)	Label	Internal packaging	Sale unit
BSP054	Ø 16 x100	cylindrical	methacrylate	X			in bulk	case / 2000
BSP055	Ø 16 x100	cylindrical	methacrylate	X		X	in bulk	case / 2000
BSP048	Ø 16 x100	cylindrical	polypropylene	X			in bulk	case / 2000
BSP049	Ø 16 x100	cylindrical	polypropylene	X		X	in bulk	case / 2000
BSP058	Ø 16 x100	cylindrical	polypropylene	X	2.5 / 5 / 10		in bulk	case / 2000
BSP059	Ø 16 x100	cylindrical	polypropylene	X	2.5 / 5 / 10	X	in bulk	case / 2000
BSP072	Ø 16 x100	cylindrical	polystyrene	X	2.5 / 5 / 10		in bulk	case / 2000
BSP073	Ø 16 x100	cylindrical	polystyrene	X	2.5 / 5 / 10	X	in bulk	case / 2000
BSP060	Ø 16 x103	conical	polypropylene	X	0.5 / 1 / 2.5 / 5 / 10		in bulk	case / 2000
BSP061	Ø 16 x103	conical	polypropylene	X	0.5 / 1 / 2.5 / 5 / 10	X	in bulk	case / 2000
BSP074	Ø 16 x103	conical	polystyrene	X	0.5 / 1 / 2.5 / 5 / 10		in bulk	case / 2000
BSP075	Ø 16 x103	conical	polystyrene	X	0.5 / 1 / 2.5 / 5 / 10	X	in bulk	case / 2000



TEST TUBES, STOPPERS, RACKS

DROSOPHILA

- ▶ Vials for drosophila
- ▶ In carton-rack of 100 pcs or bulk
- ▶ In polystyrene
- ▶ 2 formats of tubes: 25 x 95 or 28.5 x 95 mm

CAT. NO.	Dimensions (mm)	Bottom	Raw material	Case	Internal packaging	Sale unit
789001B	Ø 25 x 95	self standing	polystyrene	Rack	100	500
789002	Ø 28.5 x 95	self standing	polystyrene	Rack	100	500
789008	Ø 25 x 95	self standing	polystyrene	Bulk	-	500
789009	Ø 28.5 x 95	self standing	polystyrene	Bulk	-	500



You can find all Drosophila accessories on Dutscher's catalogue, chapter "Tubes and Rack"

CAPS



Polyethylene stoppers with wings

- ▶ For Ø12 or Ø16 mm tubes
- ▶ With wings
- ▶ In polyethylene
- ▶ 8 colors available



Color	Ø 12 mm CAT. NO.	Ø 16 mm CAT. NO.
neutral	BSA062	BSA063
light blue	BSA062/AZ	BSA063/AZ
white	BSA062/B	BSA063/B
blue	BSA062/BLU	BSA063/BLU
yellow	BSA062/G	BSA063/G
pink	BSA062/RA	BSA063/RA
red	BSA062/RO	BSA063/RO
green	BSA062/V	BSA063/V
Internal Packaging	bag / 1000	bag / 1000
Sale unit	case / 20000	case / 10000

Security stoppers for tubes

- ▶ For Ø12 mm tubes
- ▶ Safety closure
- ▶ In polyethylene
- ▶ 5 colors available



Color	CAT. NO.	Tubes	Internal packaging	Sale unit
white	BSO100	BSA059V BSA059V/P BSA0592	bag / 1000	case / 12000
blue	BSO100/BLU		bag / 1000	case / 12000
green	BSO100/V		bag / 1000	case / 12000
grey	BSO100/GR		bag / 1000	case / 12000
red	BSO100/RO		bag / 1000	case / 12000

Polyethylene stoppers

- ▶ For Ø12 or Ø16 mm tubes
- ▶ In polyethylene
- ▶ 7 colors available



White R.I.A. stoppers

White R.I.A. stopper in polyethylene, Ø 11 mm for BSA060.



CAT. NO.	Diameter (mm)	Raw material	Internal packaging	Sale unit
BSA061	Ø 11	polyethylene	bag / 1000	case / 3000

Vacustopper™



- ▶ In polyethylene Ø 13 mm
- ▶ For vacuum tubes reclosing or for sorwall test-tubes Ø 12 and 13 mm
- ▶ internal shape to allow the cap to join the tube internally
- ▶ Suitable with vacuum tubes: BD Vacutainer®, Venosafe®, Vacuette® Greiner-Bio One®

CAT. NO.	Diameter (mm)	Raw material	Internal packaging	Sale unit
BSO113	Ø 13	polyethylene	bag / 1000	case / 4000

Color	Ø 12 mm CAT. NO.	Ø 16 mm CAT. NO.
red	BSO036	BSO025
white	BSO037	BSO026
yellow	BSO038	BSO027
dark green	BSO039	BSO028
light blue	BSO040	BSO029
blue	BSO041	BSO030
pink	BSO043	BSO032
Sale unit	case / 4000	case / 10000

TEST TUBES, STOPPERS, RACKS

RACK

Modular 10-position polystyrene rack

- Special slots to connect multiple racks
- Numbering on the base
- The rack is available in two versions for 12 and 13 mm tubes



CONNECTABLE
BETWEEN THEM



NUMBERING
ENGRAVED



CAT. NO.	Description	Compatibility	Color	Dimensions cm	Sale unit
BSV022	Modular rack 10 positions in PS	for 12 x 86 mm tubes	Orange	19 x 5 x h 3,5	5
BSV023	Modular rack 10 positions in PS	for 13 x 75 mm tubes	Fluorescent green	19 x 5 x h 3,5	5

50 places racks

Abs stackable rack with alphanumerical grid

- In ABS
- Stackable
- With alphanumerical grid
- White
- 50 Places



CAT. NO.	Places	Ø (mm)	dim. (mm)	h (mm)	Color	Sale unit
BSP213	50	13.0	210 x 102	50	White	12
BSP217	50	16.0	240 x 110	53	White	12

Racks for haemolysis tubes

- Made of polypropylene
- For tubes of ø 13, 16, 20, 25 and 30 mm
- Supplied flat
- Stackable
- Marking area on the two lengths
- Autoclavable
- Alphanumeric referencing on the tray
- 4 colours available: white, blue, yellow, red

For Tubes Ø	Tubes number	L x l x h (mm)	white	blue	yellow	red
13 mm	90 (6x15)	246x105x64	391074	391075	391076	391077
16 mm	60 (5x12)	246x105x72	391078	391079	391080	391081
20 mm	40 (4x10)	246x105x72	391082	391083	391084	391085
25 mm	40 (4x10)	295x125x85	391086	391087	391088	391089
30 mm	24 (3x8)	300x112x85	391090	391091	391092	391093
Sale unit			1	1	1	1



TEST TUBES, STOPPERS, RACKS

Box for tubes 15, 20, 30 and 50 mL with lid

Rigid boxes composed of a coloured support fixed onto a translucent bottom and a translucent covering lid for complete observation of the tubes.

- ▶ For tubes of 15, 20, 30 and 50 mL
- ▶ Can be used from -5 °C to +125 °C
- ▶ With numbering index



CAT. NO.	L x d x h (mm)	Tube Ø (mm)	Volume (mL)	Number of holes	Colours	Sale unit
064201	148 x 148 x 129	17	15	36	green	2
064202	148 x 148 x 60	30	20	16	mauve	2
064203	148 x 148 x 91	30	30	16	orange	2
064204	148 x 148 x 129	30	50	16	pink	2

Rack for 15 mL and 50 mL tubes

- ▶ For 25 tubes of 50 mL or 50 tubes of 15 mL
- ▶ Autoclavable at 121 °C
- ▶ Can be frozen at -80 °C
- ▶ Stackable
- ▶ Snap-on



Tubes (ml)	Natural	White	Yellow	Orange	Red
15	949000	949001	949002	949003	949004
50	949009	949010	949011	949012	949013
Sale unit	5				

Tubes (ml)	Violet	Blue	Green	Assorted
15	949005	949006	949007	949008
50	949014	949015	949016	949017
Sale unit	5			

5ml / 15 mL tube rack

- ▶ 2 moving hinged upper shelves able to hold 5 mL or 15 mL tubes (up to 16 mm in diameter)
- ▶ Tear drop shaped openings for a better retention of tubes
- ▶ Imprinted grid of both sides of the upper shelves
- ▶ Dimensions : 30,9 x 10,7 x 7,7 cm
- ▶ Autoclavable at 121 °C for 15 min.



CAT.NO	Description	Color	Sale unit
320532	5ml / 15 mL tube rack, 40 wells	purple white	1
320533	5ml / 15 mL tube rack, 40 wells	green blue	1

Racks for 15 and 50 mL tubes

- ▶ In polypropylene
- ▶ Autoclavable at +121 °C
- ▶ Temperature range -80 °C



CAT. NO.	Description	dim. (mm)	Sale unit
049730	Blue rack for 18 tubes of 15 ml	122 x 88 x 70	1
049731	Blue rack for 6 tubes of 50 ml	122 x 88 x 70	1
049732	Blue rack for 12 tubes of 50 ml	234 x 88 x 70	1

Acetal multi-racks

- ▶ 3 models for tubes of 13, 16 or 30 mm
- ▶ Made from a highly resistant acetal based polymer
- ▶ Autoclavable from 20 °C to 120 °C
- ▶ L x w x h: 293 x 115 x 65 mm



Ø (mm)	Tubes Capacity	Blue	Green	Maive	Orange	Yellow
13	84	039837	039838	039839	039840	039841
16	60	039842	039843	039844	039845	039846
30	18	039847	039848	039849	039850	039851
Sale Unit		1				

TEST TUBES, STOPPERS, RACKS

Reversible multi-sided racks

A large choice of configurations.
The reversible racks can be used to store all diameters of tubes, microtubes, cryotubes.
The choice of multiple colours enables preparations to be organised and tubes to be identified on the lab bench. Made from autoclavable polypropylene, they can tolerate water-baths and freezing.

4 possible configurations:

Configuration A: 4 sides for:

- ▶ 32 microtubes 0.5 mL
- ▶ 32 microtubes 1.5 mL or tubes \varnothing 12 mm
- ▶ 12 conical tubes 15 mL \varnothing 17 mm
- ▶ 4 conical tubes 50 mL \varnothing 30 mm
- ▶ L x w x h: 89 x 50 x 17 mm.

Configuration B: 4 sides for:

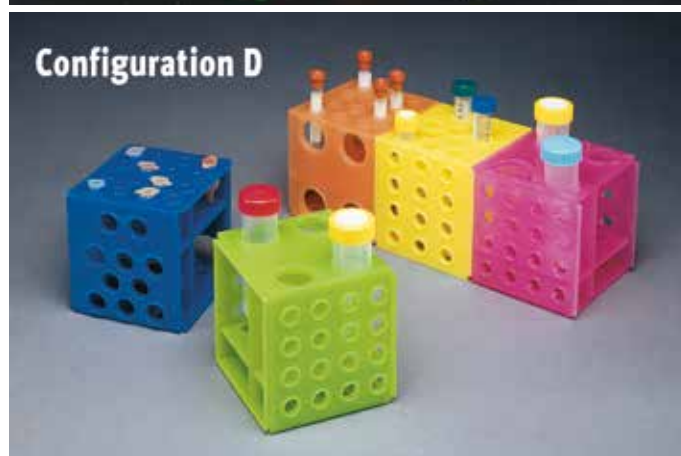
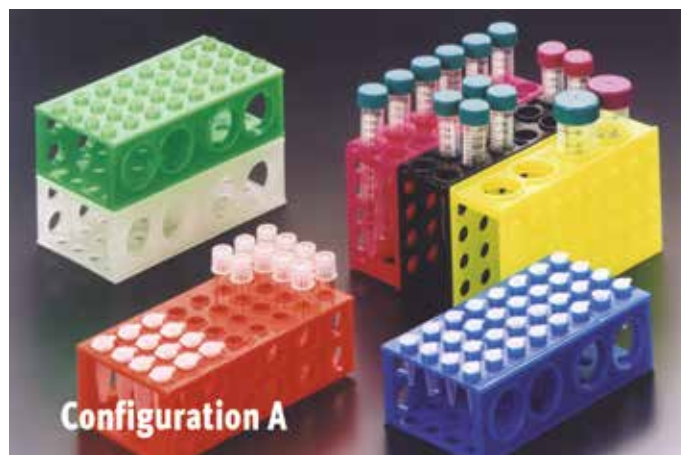
- ▶ 8 conical tubes 50 mL \varnothing 30 mm
- ▶ 20 tubes \varnothing 20 mm
- ▶ 24 conical tubes 15 mL \varnothing 17 mm
- ▶ 40 tubes \varnothing 13 mm
- ▶ L x w x h: 195 x 100 x 100 mm.

Configuration C: 4 sides for:

- ▶ 12 tubes \varnothing 25 mm
- ▶ 20 tubes \varnothing 20 mm
- ▶ 24 conical tubes 50 mL \varnothing 17 mm
- ▶ 40 tubes \varnothing 13 mm
- ▶ L x w x h: 195 x 100 x 100 mm.

Configuration D: 4 sides for:

- ▶ 4 conical tubes 50 mL \varnothing 30 mm
- ▶ 10 conical tubes 15 mL \varnothing 17 mm
- ▶ 12 tubes \varnothing 12 mm
- ▶ 16 microtubes 1.5 mL or 2 mL
- ▶ L x w x h: 195 x 100 x 100 mm.



Color	Configuration A	Configuration B	Configuration C	Configuration D
natural	037559	045430	-	-
blue	037560	045431	045439	-
green	037561	045432	045440	-
orange	037562	045433	045441	-
pink	037563	045434	045442*	-
yellow	037564	045436	-	-
violet	-	-	045438	-
mix 5 color	037565	045437	045443	037572

*red

Barrel rack

Rack with pivoting modules like a barrel. Can be used as simple module or snapped on. Block of four racks in green, blue, red and yellow colours.

- ▶ Dimensions: 108 x 108 x 69 mm
- ▶ Made from polypropylene
- ▶ Autoclavable with caution
- ▶ Temperature range -80 °C to +121 °C
- ▶ Capacity: 2 tubes 50 mL, 8 tubes 15 mL, 12 microtubes 1.5 mL or 2 mL maximum diameter 11 mm, 6 microtubes 0.5 mL maximum diameter 8 mm, one PCR plate using two modules, 6 strips of 8 PCR microtubes per module, 8 strips of 12 PCR tubes on 2 modules, 48 PCR microtubes on 1 module

CAT. NO.	Description	Sale unit
048021	Barrel rack	1
048021B	ECO rotator workstation	1





E.S.R. SYSTEM

For more details please visit:

<http://www.biosigma.com/e-s-r-system.html>

The Erythrocyte Sedimentation Rate (ESR) is a non-specific test that alerts physicians to the possible presence of body diseases or abnormalities. The ESR is determined by measuring, in millimeters per hour, the distance red cells have fallen after separating from the plasma in a vertical sed-rate pipette. The manual test takes 60 minutes to completed.

E.S.R. SYSTEM

E.S.R. PIPETTES

E.S.R. glass pipette



The glass pipette can be used to withdraw blood from any kind of test-tube. Direct suction system to allow the lab-technician, by pulling the internal piston upwards, to let the blood column reach the "0" level, with automatic stop. The pipette is graduated from "0" to "180", with a transparent background for immediate reading. The rack can hold ten pipettes in pre-numbered position and ensures every pipette a perfectly vertical position.

- ▶ Transparent glass tube
- ▶ Graduation 0-180 ml
- ▶ With a polyethylene piston

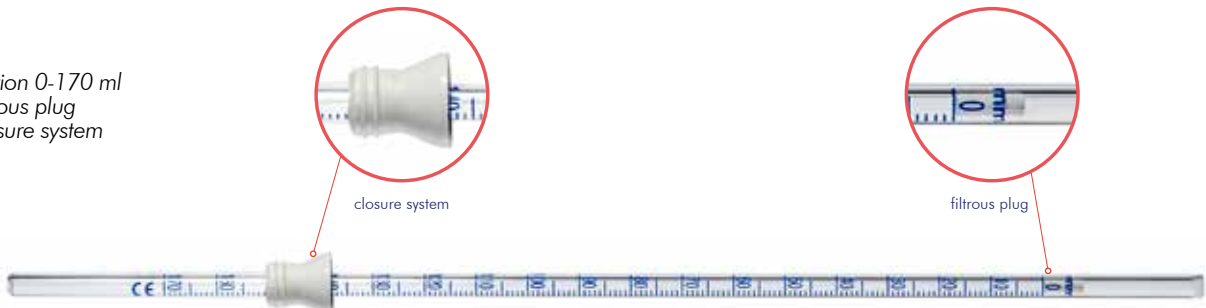


CAT. NO.	Description	Dimensions (mm)	Graduation (mm)	Scale distance (mm)	Internal pack	Sale unit
BSV012	E.S.R. glass pipette, graduated, with a polyethylene piston	L 210, Ø 4.45	0 - 180	10	case / 500	case / 2000

E.S.R. plastic pipettes

The polystyrene pipette is graduated from 0 to 170mm and features a unique fibrous plug located at the zero mark. The plug is specifically designed to be a self-sealing aerosol barrier that stops hazardous substances from escaping through the top of the pipette.

- ▶ Graduation 0-170 ml
- ▶ With fibrous plug
- ▶ With closure system



CAT. NO.	Description	Dimensions (mm)	Graduation (mm)	Internal pack	Sale unit
BSV0123P	E.S.R. plastic pipette graduated with an aspirator	L 230, Ø 4.45	0 - 170	case / 200	case / 800

E.S.R. TUBES

NA Citrate test tube ideal for E.S.R. System



CAT. NO.	Description	Sale unit
BSV0121	NA Citrate Tube 0.106 ml/ESR, 12x55 mm with a black pierceable cap, in polypropylene	1000
BST128	E.S.R. TUBE with 0,25 ml NA Citrate, for 1 ml of blood, Ø 12 x 56 mm, pink stopper, labelled, with no pierceable stopper, in polypropylene. Double arrow indicative at 1 ml and 2.25 ml.	1500

E.S.R. RACKS

10-PLACE RACK WITH PIPETTE SUPPORT CLAMPS

This unique rack features support clamps that hold the pipettes in a perfectly vertical position.

- ▶ In ABS
- ▶ 10 places
- ▶ White color
- ▶ With support camps



Rack

CAT. NO.	Description	Raw material	Internal packaging	Sale unit
BSV011	10-place E.S.R. rack in ABS	ABS	1	5



RAPID TESTS

For more details please visit:

<http://www.biosigma.com/rapid-tests.html>

RAPID TESTS

FECAL OCCULT BLOOD TEST

A rapid, one step test for the qualitative detection of Human Occult Blood in feces.

- ▶ Rapid chromatographic immunoassay for the qualitative detection of Human Occult Blood in feces
- ▶ For professional in vitro diagnostic use only
- ▶ CE marked



Fecal occult blood device

CAT. NO.	Description	Sample	Sensitivity	Sale unit
BSD680	Test in card + Bottle with buffer solution for dilution of stool sample.	feces	50 ng/ml	25

PREGNANCY RAPID TESTS

The hCG One Step Pregnancy Test Device (Urine/Serum) is a rapid chromatographic immunoassay for the qualitative detection of human chorionic gonadotropin in urine or serum to aid in the early detection of pregnancy.

The hCG One Step Pregnancy Test Device (Urine/Serum) is a preliminary qualitative test, therefore, neither the quantitative value nor the rate of increase in hCG can be determined by this test.

The test contains anti-hCG particles and anti-hCG coated on the membrane.

For professional in vitro diagnostic use only.



Card

Strip

CAT. NO.	Description	Sample	Sensitivity	Sale unit
BSD525	Fast-Step hCG in card	Serum-Urine	25 mIU/ml	40

CAT. NO.	Description	Sample	Sensitivity	Sale unit
BSD5250	Fast-Step hCG in strip	Serum-Urine	25 mIU/ml	50

ONE STEP DRUG SCREEN TEST DEVICE (URINE)

A rapid, one step screening test for the simultaneous, qualitative detection of drugs and drug metabolites in human urine or saliva. Tests for drugs of abuse range from simple immunoassay tests to complex analytical procedures. The speed and sensitivity of immunoassays have made them the most widely accepted method to screen urine or saliva for drugs of abuse. The One Step Drug Screen Test Device is a lateral flow chromatographic immunoassay for the qualitative detection of drugs and drug metabolites in urine or saliva.

For medical and other professional in vitro diagnostic use only.



Single parameter test

Urine

CAT. NO.	Drug		Cut-off ng/ml	Sale unit
BSD700	MOP	Morphine	300	40
BSD701	THC	Marijuana	50	40
BSD702	COC	Cocaine	300	40
BSD703	AMP	Amphetamine	300	40
BSD704	MET	Methamphetamine	500	40
BSD706	BAR	Barbiturates	300	40
BSD707	BZO	Benzodiazepine	300	40
BSD708	MTD	Methadones	300	40
BSD709	MDMA	Methylenedioxymethamfetamin	500	40
BSD730	BUP	Buprenorphine	10	40
BSD7101	KET	Ketamine	1000	40
BSD930	CAF	Caffeine	1000	50
BSD932	LSD	LySergic Acid Diethylamide	20	40
BSD934	CAT	Cathine	150	40
BSD935	COT	Cotinine	200	50
BSD936	ETG	EthylGlucuronide	1000	40

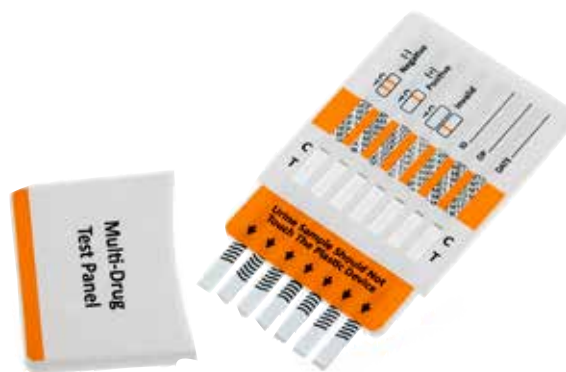


RAPID TESTS

Multi-drug test



BSD711/BSD714/BSD716



BSD770

Urine

CAT. NO.	Parameter number	Drug	Cut-off ng/ml	Sale unit
BSD711	5	AMP COC THC MET MOP	Amphetamine 1000 Cocaine 300 Marijuana 50 Methamphetamine 1000 Morphine 300	25
BSD714	10	AMP COC THC BZO TCA BAR MET MOP MTD MDMA	Amphetamine 1000 Cocaine 300 Marijuana 50 Benzodiazepine 300 Tricyclic antidepressants 1000 Barbiturates 300 Methamphetamine 1000 Morphine 300 Methadone 300 Methylenedioxymethamphetamine 500	25
BSD716	12	AMP COC THC MET OPI PCP BZO TCA BAR MDMA MTD MOP	Amphetamine 1000 Cocaine 300 Marijuana 50 Methamphetamine 1000 Opium 2000 Phencyclidine 25 Benzodiazepine 300 Tricyclic antidepressants 1000 Barbiturates 300 Methylenedioxymethamphetamine 500 Methadone 300 Morphine 300	25

Urine immersion

CAT. NO.	Parameter number	Drug	Cut-off ng/ml	Sale unit
BSD770	7	AMP COC THC MET MTD MDMA MOP	Amphetamine 500 Cocaine 300 Marijuana 50 Methamphetamine 500 Methadone 300 Methylenedioxymethamphetamine 500 Morphine 300	25
BSD778	8	MTD MDMA COC AMP MET THC MOP BUP	Methadone 300 Methylenedioxymethamphetamine 500 Cocaine 300 Amphetamine 500 Methamphetamine 500 Marijuana 50 Morphine 300 Buprenorphine 10	25



Negative

Positive

Invalid

RAPID TESTS

INFECTIOUS DISEASES

Immunochromatographic rapid test for the detection of infectious diseases.

All reagents and materials coming in contact with potential infectious specimens must be treated with appropriate disinfectants or autoclaved at 121°C for at least one hour.

These tests are designed for in vitro diagnostic use only.



Virus

CAT. NO.	Infectious agent	Sample	Features	Sale unit
BSD401	SARS-CoV-2	Nasopharyngeal swab	Immunochromatographic Test intended for the direct and qualitative detection of SARS-CoV-2 nucleocapsid antigens in nasopharyngeal swab.	20
BSD585	DUO ROTA-ADENOVIRUS	Feaces	for the qualitative feaces detection of DUO ROTA- ADENOVIRUS antigen	20
BSD586	ADENOVIRUS	Feaces	for the qualitative feaces detection of ADENOVIRUS antigen	20
BSD587	ROTAVIRUS	Feaces	for the qualitative feaces detection of ROTAVIRUS antigen	20
BSD613	MONONUCLEOSIS	Serum, Plasma, whole blood	Immunochromatographic rapid test for the detection of infectious Mononucleosis antibodies	20

Bacteria

CAT. NO.	Infectious agent	Sample	Features	Sale unit
BSD594	TUBERCULOSIS	Serum, Plasma, whole blood	for the detection of human antibodies (IgA, IgG, IgM) to Koch's bacillus	20
BSD598	A+B CLOSTRIDIUM	Feaces	for the qualitative feaces detection of toxin A and B of Clostridium Difficile, due to antibody polyclonal binding antitoxin A and B.	20
BSD599	TETANUS	Serum, Plasma, whole blood	for qualitative detection of tetanus antitoxin antibodies. The assay is intended for helping anti- tetanus prophylaxis for patients at risk of tetanus	20
BSD600	CHLAMIDIA	Female: cervical swab Male: Urethral swab, urine	for the detection of CHLAMIDIA trachomatis	20
BSD632	H-PYLORI	Feaces	for the qualitative feaces detection of H-PILORY	20
BSD712	SYPHILIS	Serum, Plasma	for the detection of antibodies (IgG and IgM) to Treponema pallidum (SYPHILIS)	40
BSD715	STREPTOCOCCUS A	Pharyngeal swab	for the qualitative detection of Strep A antigen. Kit with positive and negative controls	20

CALPROTECTIN

- For professional in vitro diagnostic use only
- CE marked

CALPROTECTIN

CAT. NO.	Description	Sample	Sale unit
BSD920	Rapid test for the determination of fecal calprotectin	feaces	10



RAPID TESTS

PARASSITOLOGY

Biorepair system, parassitfecal. Biorepair system. Enrichment System for parassitology, with new reagent without formalin.

Kit includes:

- Empty Biotube with filter
- Biotube 3ml with reagent A : Baileger-solution (Xi- irritant); 0.4 %; acetic acid; Sodium acetate 15 g/l, 0.05 % sodium azide; cap with spoon
- Reagent B 100ml (Ethyl Acetate)
- Reagent C 15ml (Lugol)

Biorepair

CAT. NO.	Description	Sample	Sale unit
BSD855/E	Biorepair, system parassit fecal	Feaces	50



URINE ANALYSIS

Strips are made for urinalysis of both qualitative and semi-quantitative, which are in vitro reagent for diagnostics. It tests Leukocytes, Nitrite, Urobilinogen, Protein, pH, Blood, Specific Gravity, Ketone (acetoacetic acid), Bilirubin, and Glucose in urine. Please refer to the out-side box carton and bottle label for the specific test parameters of the product you are using.

The results on the strips can be read visually and instrumentally.

The strips are for professional use only.

Urinalysis strip 10 parameters

CAT. NO.	Parameter	Sale unit
BSD749SG	LEUC	Leukocytes
	NIT	Nitrites
	UR	Urobilinogen
	PR	Proteins
	PH	PH
	BLOOD	BLOOD
	SG	Specific Gravity
	KET	Ketones
	BIL	Bilirubin
	BLU	Glucose
		100



CONSUMABLES

Plastic cassette for rapid tests

CAT. NO.	Description	Sale unit
BSD335	for 3.9 mm strips free writing	2000
BSD330	for 3.9 mm strips with HCG writing	4000
BSD310	for 5 mm strips free writing	3000
BSD300	for 5 mm strips with HCG writing	6000

Pipette pasteur for card test

CAT. NO.	Description	Sale unit
BSV150	Pipette pasteur for card test-kit 40 µl	10000



BSD310

BSD335

BSV150



CONTAINERS

For more details please visit:

<http://www.biosigma.com/containers.html>

A wide range of containers for different uses such as urine, feaces, sputum collector and waste containers.

Made of hight quality raw materials and with accurate graduation.

CONTAINERS

URINE CONTAINERS WITH SCREW CAPS

Different styles of urine containers suitable for specimen collection and test requests.
High tightness prevents any leakage and contamination during storage and transportation.

- ▶ In clear Polypropylene or Polystyrene
- ▶ Red or white cap
- ▶ Available sterile and single packed
- ▶ Frosted writing side or with label
- ▶ Clear graduation



BSC124/123



BSC660



BSC665



BSC253



BSC258



BSC195

CAT. NO.	Colour Cap	Volume (ml)	Diameter (ml)	Heigh (mm)	Sterile	Label	Frosted Side	Raw material	Internal packaging	Sale unit
BSC124	red	30	28.0	82.0			X	PP	in bulk	case / 700
BSC123	red	30	28.0	82.0	X		X	PP	single packed	case / 500
BSC660	white	60	37.5	65.0			X	PP	in bulk	case / 600
BSC665	red	60	37.5	65.0	X		X	PP	single packed	case / 500
BSC253	white	120	56.0	70.0			X	PP	in bulk	case / 300
BSC258	red	120	56.0	70.0	X		X	PP	single packed	case / 250
BSC195	red	200	59.0	85.0	X	X		PS	single packed	case / 150
BSC198	blue	200	64.0	90.0			X	PP	in bulk	case / 600
BSC199	red	200	64.0	90.0	X		X	PP	single packed	case / 200

FEACES CONTAINERS



BSC128



BSC132



BSC160



BSC163

- ▶ Feaces container
- ▶ In clear polypropylene or polystyrene
- ▶ With screw cap or pressure cap
- ▶ With frosted writing area or with label
- ▶ Available sterile single packed
- ▶ With spoon or paddle

CAT. NO.	Colour Cap	Volume (ml)	Caps	Spoon	Diameter (ml)	Heigh	Sterile	Graduated	Frosted Side	Raw material	Internal packaging	Sale unit
BSC128	red	30	screw	with paddle	28.0	82.5		X	X	PP	in bulk	case / 700
BSC132	red	30	screw	with paddle	28.0	82.5	X	X	X	PP	single packed	case / 500
BSC160	blue	18	pressure	with spoon	19.5	80.5				PS	bag / 250	case / 1500
BSC163	red	18	pressure	with spoon	19.5	80.5	X		Label	PS	bag / 250	case / 1000

SPECIMEN CONTAINERS



BSC105



BSC146



BSC148

- ▶ Specimen container
- ▶ Manufactured in cristal polystyrene with high trasparency
- ▶ With polyethylene pressure cap
- ▶ Available also sterile and single packed
- ▶ Wide mouth for an easy use

CAT. NO.	Colour Cap	Volume (ml)	Caps	Spoon	Diameter (ml)	Heigh (mm)	Sterile	Raw material	Internal packaging	Sale unit
BSC105	white	30	pressure (aside)	-	33.5	39.5		PS	in bulk	case / 800
BSC146	blue	60	pressure (aside)	-	56.5	37.5		PS	in bulk	case / 400
BSC148	red	60	pressure	-	56.5	37.5	X	PS	bag / 100	case / 400

CONTAINERS

SURGICAL PART CONTAINERS

Shockproof polystyrene containers for surgical parts, with pressure closure.

CAT.NO.	Dimensions (mm Ø)	Volume (ml)	Printing	Sale unit
BSC2512	125 x 70	500	X	180
BSC2511	125 x 70	500		180
BSC2522	125 x 120	1000	X	180
BSC2521	125 x 120	1000		180
BSC2520	200 x 130	2500	X	52
BSC2524	200 x 130	2500		52
BSC2527	200 x 215	5000	X	40
BSC2525	200 x 215	5000		40



24-HOUR CONTAINERS

Tank for 24H urine collection with screw cap and plug for easy sampling. Graduated from 200 to 2500 ml with increments of 100 ml

- ▶ In polyethylene
- ▶ Graduated
- ▶ With handle
- ▶ 2500 ml

Also available amber version



CAT. NO.	Model	Vol. (ml)	Grad.	Handle	Dimensions (mm)	Sale unit
BSL483	Bottle	2500	X	X	Ø 130 x 250	case / 30
BSL486	Tank Rectangular	2500	X	ergonomic	245 x 110 x 160	case / 30

Square container for 24H urine collection. With screw cap for collection device for vacuum tubes and sampling probe 185 mm

- ▶ In polyethylene
- ▶ Graduated
- ▶ With handle
- ▶ 3000 ml
- ▶ Cap for collection
- ▶ Collecting cannula 20 cm



CAT. NO.	Model	Vol. (ml)	Grad.	Handle	Raw Material	Sale unit
BSL489	Tank Rectangular	3000	X	X	polyethylene	case / 30

VACUUM URINE CONTAINERS

Vacuum urine container 120 ml in polypropylene with screw cap, with frosted side



CAT. NO.	Volume (ml)	Sterile	Raw Material	Internal packaging	Sale unit
BSC200	120	X	PP	Single packed	case / 250
BSC201	120		PP	Single packed	case / 250
BSC202	120		PP	in Bulk	case / 300

WATER SAMPLING BOTTLES

Labeled containers in PETG for water sampling. With or without sodium thiosulfate.

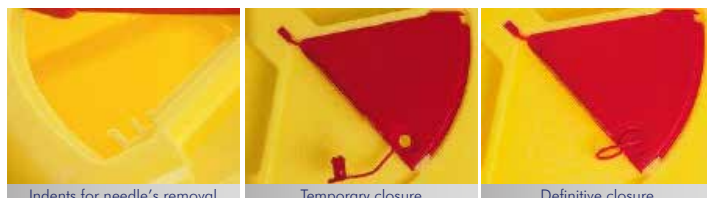


CAT. NO.	Volume (ml)	Sodium Thiosulphate	Label	Sterile	Sale unit
BLP001	500	X	X	X	case / 120
BLP002	500		X	X	case / 120
BLP003	1000	X	X	X	case / 72
BLP004	1000		X	X	case / 72

WASTE CONTAINERS

The BS series consists of three measures of disposable containers and puncture-proof double superimposed shell for the disposal of pointy and sharp waste. They are fitted with indents for the removal of the needle and arranged for a temporary or permanent closure by affixing a seal on the side of the opening. The square base makes the containers extremely stable and easy to assemble thanks to the system of the two shells.

- ▶ In polypropylene
- ▶ Excellent stability
- ▶ Easy connection installation of the two shells
- ▶ Extremely simple to use
- ▶ Temporary and definitive closure with the pin
- ▶ No emission of harmful gases during incineration
- ▶ Indication of the filling level
- ▶ Availability of table stands, wall or adapt to cart
- ▶ Autoclavable



Rectangular BS series

CAT. NO.	Volume (l)	Dimensions (cm)	Raw Material	Sale unit
BSC300	1.5	11 x 12 x 12	PP	case / 50
BSC301	3.0	14 x 17 x 17	PP	case / 50
BSC302	6.0	22 x 18 x 18	PP	case / 50

The PBS line includes round shape disposable and puncture resistant containers for the disposal of sharp and cutting waste, available in sever sizes. The conical shape and the the indent on the lid ease the needle disposal and removal, whilst the anti-defluxion flow wings on the lid prevent the waste outflow. All the models have temporary and definite closure and are fitted with solid handle; the most voluminous model is fitted with an ergonomic handle for an easy use.

- ▶ In polypropylene
- ▶ Ergonomic handle for the more spacious models
- ▶ Anti-defluxion wings to prevent the outflow of the waste
- ▶ Mechanism for unhooking insulin needles
- ▶ Maximum filling level indicator
- ▶ Various supports available
- ▶ No emission of any harmful gasses during the inceneration process
- ▶ Autoclavable



Conical PBS line

CAT. NO.	Volume (l)	Dimensions (cm)	Raw Material	Sale unit
BSC303	0.8	H 18.4 x Ø 10.0	PP	case / 100
BSC304	5.0	H 19.5 x Ø 21.3	PP	case / 55
BSC305	2.0	H 21.0 x Ø 14.0	PP	case / 75
BSC312	12.0	H 31.0 x Ø 24.8	PP	case / 25

The DISPO line is composed of disposable and puncture-proof containers with conical shape bodies. The permanent and inviolable closure that prevents waste leakage and the high container resistance guarantee top quality and safety. All of the models have temporary and permanent closures, a wide opening for the disposal of larger materials, and three indents for the needles and insulin pen removal

- ▶ In polypropylene
- ▶ Excellent stability with suction cuo support use
- ▶ Easy to assemble
- ▶ Practical opening system
- ▶ Indents for needles and insulin pen removal
- ▶ Wide opening for larger material disposal
- ▶ Maximum filling level indicator
- ▶ No emission of any harmful gas during the incineration process
- ▶ Temporary and permanent closure
- ▶ Autoclavable



Conical DISPO line with rapid closure cap

CAT. NO.	Volume (l)	Dimensions (cm)	Raw Material	Sale unit
BSC306	4.0	H 25.0 x Ø 16.9	PP	case / 40

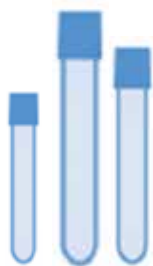


TRANSPORT LINE

For more details please visit:

<http://www.biosigma.com/transport-line.html>

In accordance with the ADR/RID, IATA, IMDG Code and ICAO-TI Regulations,
the packaging for the shipment of Biological Substances
Category B (UN 3373) must consist of 3 components:



Primary container

It is watertight, withstands one pressure difference of at least 95kPa



Secondary container

It is watertight, contains foam and absorbent material



Tertiary container

Container or bag for isothermal transport printed with the symbol "UN 3373" associated with the text "Biological substance, Category B"

TRANSPORT LINE FOR BIOLOGICAL SAMPLES

Transport Container (CTP) for tubes

Transport container for blood collecting tubes or urine containers. Supplied with foam insert for 78 tubes

- ▶ In polypropylene
- ▶ With silicone sealing
- ▶ With foam insert up 78 tubes
- ▶ With absorbent polymer pad
- ▶ Storage temperature from - 18°C to +50°C
- ▶ Conformity to P650 (ADR 2003, Chap. 4.1.4.1), EN 829



Tube Transport Container (CTP)

CAT. NO.	Description	Dimensions (mm)	Sale unit
BS472041	Transport Container (CTP) for 78 tubes	310 x 155 x 180	1

Transport bags Suitable for secondary container CTP

System of transport and protection of biological samples by safety containers. UN3373 - Biological Material Category "B", non autoclavable, sterilizable on cold

- ▶ External in Polyester 600/900 PVC coated.
- ▶ Inner in Nylon 210/210 PVC coated.
- ▶ Semi-rigid structure insulating with padding in Elastolen.
- ▶ Zipper closure.
- ▶ Inside pocket for the cooling element
- ▶ External pocket for documents.
- ▶ Symbols: UN3373 - Biological Material Category "B"
- ▶ Easy transport thanks to light weight and shoulder strap (only reference BS130414)
- ▶ Disinfectable with aqueous solutions of the most common disinfectants
- ▶ Can be sterilized with aqueous solutions of cold sterilants
- ▶ Washable at 40 °C
- ▶ Blue color



BS130413

BS130414

BS720204

CAT. NO.	Suitable for:	Dimensions (cm)	Internal pocket for	Sale unit
BS130413	1 container BS472041	21 x 26 x 36	1 cooling element	1
BS130414	2 containers BS472041	28 x 40 x 36	2 cooling elements	1
BS130415	3 containers BS472041	61 x 38 x 27	3 cooling elements	1
BS720204	4 containers BS472041	35 x 38 x 39	3 cooling elements	1

Duplex racks

Reversible Rack for 84 blood collection tubes or 42 blood collection tubes + 4 for urine containers

- ▶ Suitable for BS472041 Transport Container for tubes (CTP)
- ▶ In Polypropylene
- ▶ Disinfectable and autoclavable up to 121 °C
- ▶ Blue color



Reversible rack

CAT. NO.	Description	Dimensions (mm)	Sale unit
BS00102	Reversible Rack for 84 blood collection tubes or 42 blood collection tubes + 4 for urine containers	270 x 125 x 110	1

Racks in absorbent foam



BS390078

BS390079

For BS472041 secondary container in polyurethane

CAT. NO.	Holes	Suitable for:	Transport	Dimensions (cm)	Sale unit
BS390078	78	secondary container BS472041	tubes	28 x 12.8 x 6	1
BS390079	6	secondary container BS472041	urine containers, bottles	28 x 12.8 x 6	1
BS390080	18	secondary container BS472041	histology containers	28 x 12.8 x 6	1

TRANSPORT LINE IN ACCORDANCE WITH ADR NORMS

VACUETTE® Transport Container (VTC)

VACUETTE® Transport Containers ensure the safe transport of biological substance (UN 3373) CATEGORY B from the collection point right up to analysis in the laboratory. The VACUETTE® Transport Containers can store twelve tubes and are available with or without shipping box.

- ▶ Screw cap container for 12 tubes in polypropylene
- ▶ For tubes of 13x75, 13x100, 16x100 mm with foam insert
- ▶ Non sterile
- ▶ With absorbent pad
- ▶ Foam insert with 12 places for the primary containers
- ▶ In accordance with ADR/RID, IATA-DG, ICAO-Code and IMDG-Code



Cylindrical container for 12 tubes

CAT. NO.	Description	Dimensions (mm)	Sale unit
BS800110	Container for 12 tubes	Ø113 h 1180	1

VACUETTE® Transport Box (VTB)

Secondary container for biological sample transport. The VACUETTE® Transport Box ensure the safe transport of sample material from the collection point right up to analysis in the laboratory. The VACUETTE® Transport Box can store 40 tubes

- ▶ In polypropylene
- ▶ With silicone sealing
- ▶ With foam insert for up to 40 tubes
- ▶ With absorbent polymer pad
- ▶ Storage temperature from - 18°C to +50°C
- ▶ In accordance with ADR/RID, IATA-DG, ICAO-Code and IMDG-Code



VACUETTE® Transport Box (VTB)

CAT. NO.	Description	Dimensions (mm)	Sale unit
BS472040	Secondary container for biological sample transport	270 x 125 x 180	1

Bags for secondary container transport in accordance with ADR norms

System of transport and protection of biological samples by safety containers, in accordance with ADR European norms. non autoclavable, sterilizable on cold



BS720205



BS720201



BS720202



BS720203



BS720206

- ▶ External in Polyester 600/900 PVC coated
- ▶ Inner in Nylon 210/210 PVC coated
- ▶ Semi-rigid structure insulating with 8 mm padding in Elastolen
- ▶ Zipper closure
- ▶ Inside pocket for the cooling element
- ▶ External pocket for documents
- ▶ Symbols: UN3373 - Biological Material Category "B"
- ▶ Disinfectable with aqueous solutions of the most common disinfectants
- ▶ Can be sterilized with aqueous solutions of cold sterilants
- ▶ Washable at 40 °C
- ▶ Blue color

CAT. NO.	Suitable for:	Dimensions (cm)	Internal pocket for	Sale unit
BS720201	1 container BS472040 40 tubes	28 x 18 x 21	1 cooling element	1
BS720202	2 containers BS472040 80 tubes	32 x 30 x 22	2 cooling elements	1
BS720203	3 containers BS472040 120 tubes	43 x 30 x 20	3 cooling elements	1
BS720206	6 containers BS472040 240 tubes With shoulder strap	42 x 30 x 38	4 cooling elements	1
BS720205	1 container BS800110 12 tubes	Ø12 x 15	-	1

Racks in absorbent foam for secondary containers

For BS800110 secondary container in polyurethane

CAT. NO.	Holes	Suitable for:	Transport	Dimensions (cm)	Sale unit
BS800101	12	BS800110	tubes	Ø 10.5 x 6.8	1



BS800101

For BS472040 secondary container in polyurethane

CAT. NO.	Holes	Suitable for:	Transport	Dimensions (cm)	Sale unit
BS472007	40	for secondary container BS472040	tubes	21,8 x 9 x 6.8	1
BS472008	3	for secondary container BS472040	urine containers, bottles	21,8 x 9 x 6.8	1
BS472009	8	for secondary container BS472040	urine containers, bottles	21,8 x 9 x 6.8	1



BS472007



BS472008



BS472009

TERTIARY CONTAINERS FOR BLOOD COMPONENTS

Transport of blood bags

Bag designed for the transport of units of whole or worked blood characterized by:

- ▶ A double airtight seal that prevents the spreading of biological fluids
- ▶ Transparent material that allows the visualization of the contents, allowing the operator to monitor any broken blood bags
- ▶ Resistant material that provides good protection of the contents in the event of shocks or accidental falls
- ▶ Suitable for tertiary container BS720203/P and BS720205/P



BS472045

BS600601/S

CAT. NO.	Capacity	Dimensions (mm)	Sale unit
BS472045	20 whole blood bags or up to 40 worked blood bags	360 x 250 x 500	1
BS600601/S	6 whole blood bags or up to 15 worked blood bags	260 x 190 x 262	1

Bags for blood component and biological sample transportation, suitable for blood- bag secondary containers

Designed and manufactured for the transport of units of whole and worked blood characterized by:

- ▶ Very durable material that ensures a good resistance to knocks and accidental drops
- ▶ Padding that allows the maintenance of the initial internal temperature for 3-4 hours depending on the outside temperature
- ▶ Inside pocket for the cooling element
- ▶ Shoulder strap for easy transport by operators
- ▶ Prints in accordance with ADR (UN 3373, Biological Material category B, Transport Blood components)



BS720205/P

BS720203/P

Tertiary container for blood components transport

CAT. NO.	Suitable for:	Dimensions (cm)	Internal pocket for	Sale unit
BS720203/P	1 bag BS472045	43 x 34 x 20	1 cooling element	1
BS720205/P	1 bag BS472045	43 x 34 x 32	1 cooling element	1

TRANSPORT LINE FOR CHEMOTHERAPEUTICS SAMPLES

Transport Container (CTP) for chemotherapeutics samples

Transport container for chemotherapeutics samples, supplied with foam insert for 78 tubes

- ▶ In conformity with the guidelines of the Official Gazette 236/99 for the transport of anticancer drugs (measure 5 August 1999)
- ▶ In polypropylene
- ▶ With silicone sealing
- ▶ Ermetic closure
- ▶ With foam insert up 78 tubes
- ▶ With absorbent polymer pad
- ▶ Storage temperature from - 18°C to +50°C



Transport bags for chemotherapeutics samples, suitable CTP

- ▶ In conformity with the guidelines of the Official Gazette 236/99 for the transport of anticancer drugs (measure 5 August 1999)
- ▶ External in Polyester 600/900 PVC coated
- ▶ Inner in Nylon 210/210 PVC coated
- ▶ Semi-rigid structure insulating with 8 mm padding in Elastolen
- ▶ Zipper closure
- ▶ Inside pocket for the cooling element
- ▶ External pocket for documents
- ▶ Easy transport thanks to light weight and shoulder strap (only reference BS130414/C)
- ▶ Disinfectable with aqueous solutions of the most common disinfectants
- ▶ Can be sterilized with aqueous solutions of cold sterilants
- ▶ Washable at 40 °C
- ▶ Blue color



CAT. NO.	Capacity	Dimensions (cm)	Sale unit
BS472041/C	Transport Container (CTP) for 78 tubes	310 x 155 x 180	1

CAT. NO.	Capacity	Dimensions (cm)	Internal pocket for	Sale unit
BS130413/C	1 container BS472041/C	21 x 26 x 36	1 cooling element	1
BS130414/C	2 containers BS472041/C	28 x 40 x 36	2 cooling elements	1
BS130415/C	3 containers BS472041/C	61 x 38 x 27	3 cooling elements	1
BS720204/C	4 containers BS472041/C	35 x 38 x 39	3 cooling elements	1

Duplex racks for BS472041/C

Reversible Rack for 84 blood collection tubes or 42 blood collection tubes + 4 for urine containers

- ▶ Suitable for BS472041 Transport Container for tubes (CTP)
- ▶ In Polypropylene
- ▶ Disinfectable and autoclavable up to 121 °C
- ▶ Blue color



Reversible rack

CAT. NO.	Description	Dimensions (mm)	Sale unit
BS00102	Reversible Rack for 84 blood collection tubes or 42 blood collection tubes + 4 for urine containers	270 x 125 x 110	1

Racks in absorbent foam



For BS472041/C secondary container in polyurethane

CAT. NO.	Holes	Suitable for:	Transport	Dimensions (cm)	Sale unit
BS390078	78	secondary container BS472041/C	tubes	28 x 12.8 x 6	1
BS390079	6	secondary container BS472041/C	urine containers, bottles	28 x 12.8 x 6	1
BS390080	18	secondary container BS472041/C	histology containers	28 x 12.8 x 6	1

ACCESSORIES

Cooler Elements

Cool pad for transport containers



BS4800



BS4900

CAT. NO.	Description	Dimensions (mm)	Weight Kg	Sale unit
BS4800	Cool Pad for VTC (BS720205)	Ø 110	0,05	1
BS4900	Cooler Pack for VTB (BS472040)	L220 x W120 x H11	0,245	1

Refrigerated container for single tubes

Refrigerated container for maintaining and transporting blood at original conditions, 16 x 100 mm.



CAT. NO.	Description	Dimensions (mm)	Internal packaging	Sale unit
BSM570	Refrigerated container	16 x 100	4	12

Specimen transport bags

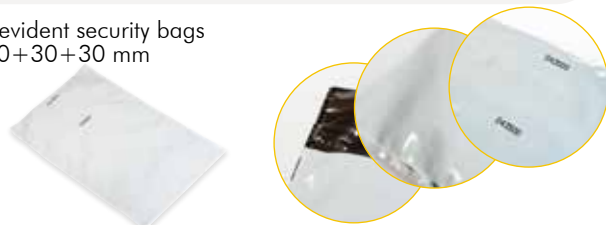
- ▶ Transparent polyethylene
- ▶ 7 different colours available
- ▶ Large printed biohazard graphic and writing area
- ▶ Double pocket to keep the paperwork separate from the container
- ▶ Reclosable zipper seal
- ▶ CE marked



CAT. NO.	Colour	Dimensions (cm)	Internal packaging	Sale unit
BSA2401	transparent	16 x 16 x 23h	100	1000
BSA2101	yellow	16 x 16 x 23h	100	1000
BSA2201	green	16 x 16 x 23h	100	1000
BSA2301	light blue	16 x 16 x 23h	100	1000
BSA2461	red	16 x 16 x 23h	100	1000
BSA2601	orange	16 x 16 x 23h	100	1000
BSA2701	pink	16 x 16 x 23h	100	1000
BSA2801	violet	16 x 16 x 23h	100	1000

Security bags

Tamper evident security bags 235x320+30+30 mm



CAT. NO.	Colour	Dimensions (cm)	Sale unit
BSA2350	White	235x320+30+30	500

FIRST AID BAGS

First aid bag with 4 external pockets

- ▶ External material: Cordura 1000
- ▶ Internal material: Nylon 210/210, PVC
- ▶ Shoulder straps and handles: Polyester 600/900, PVC
- ▶ Dimensions: ± 45 x 20 x 45h
- ▶ Weight: ± 3 Kg
- ▶ 4 external pockets
- ▶ Zipper closure
- ▶ Reflective strips
- ▶ Window for frontal Logo



CAT. NO.	Description	Dimensions (cm)	Sale unit
BS2402	First aid bag with 4 external pockets	45 x 20 x 45	1

First aid bag with 5 external pockets and 3 internal pockets

- ▶ External material: Cordura 1000
- ▶ Internal material: Nylon 210/210, PVC
- ▶ Shoulder straps and handles: Polyester 600/900, PVC
- ▶ Dimensions: ± 50 x 30 x 60h
- ▶ Weight: ± 3 Kg
- ▶ 5 external pockets + 3 internal pockets
- ▶ Zipper closure
- ▶ Anatomical backrest
- ▶ Double seams



CAT. NO.	Description	Dimensions (cm)	Sale unit
BS2401	First aid bag with 5 external pockets and 3 internal pockets	50 x 30 x 60	1

Non-rigid container

- ▶ Material: Nylon 210/210, PVC, transparent Kristal
- ▶ Dimensions: ± 30 x 9 x 16h
- ▶ Zipper closure
- ▶ One transparent face
- ▶ One Velcro face



CAT. NO.	Colour	Dimensions (cm)	Sale unit
BS2405G	yellow	50 x 30 x 60	1
BS2405V	green	50 x 30 x 60	1
BS2405B	blue	50 x 30 x 60	1
BS2405A	orange	50 x 30 x 60	1
BS2405R	red	50 x 30 x 60	1



HEALTH AND SAFETY

For more details please visit:

<http://www.biosigma.com/health-and-safety.html>

NITRILE GLOVES

- ▶ Nitrile gloves without powder not sterile
- ▶ Case 200 pcs, carton 2000 pcs. (10x200)
- ▶ EN455 Parts 1, 2, 3 & 4 – EC marked in compliance with European Medical Device Directive 93/42/EEC (CE Class I non sterile)
- ▶ EN374 (03) 1/2/3; EN420 (10); EN388 (03) – CE 0465 marked in compliance with PPE
- ▶ Directive 89/686/EEC (PPE III Category Complex Design)
- ▶ ASTM D6319 • ASTM F1670 • F1671 • EN980 • EN ISO 15223-1
- ▶ Ambidextrous shape with straight fingers
- ▶ Reinforced cuff with elastic border
- ▶ Absence of powder with consequent elimination of all the problems connected with the use of the same.



CAT. NO.	Size	Sale unit
BSI080R	XS	100
BSI081R	S	100
BSI082R	M	100
BSI083R	L	100
BSI084R	XL	100

PARAFILM



CAT. NO.	Dimensions (cm x m)	Description	Sale unit
090261	5 x 75	Parafilm ultra-expandable closing film tape	1
090260	10 x 38	Parafilm ultra-expandable closing film tape	1
090997	-	Distributor cutter parafilm	1
090998	10 x 75	Maxi-dispenser for Parafilm ultra-expandable closing film	1
090999	50 x 15	Maxi-roll of Parafilm ultra-expandable closing film	1

CRYOGENIC GLOVES

Protect yourself from extreme temperatures. Gloves which protect from very high or low temperatures, with an outer layer made of nylon and an interior made of a cotton - polyester complex protected by a polyfene film.

- ▶ Soft, comfortable, warm, even after prolonged exposure to cold
- ▶ Machine washable and dryable

5 finger glove in 4 lengths:

- ▶ Wrist: 30 cm
- ▶ Mid-forearm: 38 cm
- ▶ Elbow: 50 cm
- ▶ Shoulder: 68 cm

Characteristics of the standard model:

- ▶ Freezer at very low temperatures
- ▶ Cold room
- ▶ Dry ice handling

Characteristics of the impervious model:

- ▶ Applications in a liquid nitrogen atmosphere or environment
- ▶ Coolant bars
- ▶ Cryogenic grinding

NB: Never immerse the glove directly in liquid nitrogen.



STANDARD MODEL

	SMALL (S)	MEDIUM (M)	LARGE (L)	EXTRA LARGE (XL)	SMALL (S)	MEDIUM (M)	LARGE (L)	EXTRA LARGE (XL)	Sale unit
5 fingers 30 cm	035501	035502	035503	035504	035517	035518	035519	035520	1
5 fingers 38 cm	035505	035506	035507	035508	035521	035522	035523	035524	1
5 fingers 50 cm	035509	035510	035511	035512	035525	035526	035527	035528	1
5 fingers 68 cm	035513	035514	035515	035516	035529	035530	035531	035532	1

IMPERVIUS MODEL

- ▶ For use of material stored in liquid nitrogen or at low temperatures
- ▶ Very good insulation, thinner gloves offering excellent dexterity
- ▶ Synthetic fibre for improved flexibility
- ▶ Water resistant

- ▶ Coating "waterproof"
- ▶ With suspension ring
- ▶ EC marking

Cold protection gloves

	Gloves L. 37 cm	Gloves L. 50 cm	Gloves L. 60 cm	Sale unit
SMALL (S)	446658	446662	446670	1
MEDIUM (M)	446659	446663	446671	1
LARGE (L)	446660	446664	446672	1
EXTRA LARGE (XL)	446661	446665	446673	1





GINECOLOGY AND FERTILITY

For more details please visit:

<http://www.biosigma.com/gynecology-and-fertility.html>

SEMEN COLLECTION

The KIT FOR FERTILITY is a disposable devices used for the collection of semen sample from the patient to the laboratory and for analysis in vitro. Reserved for the medical and technical personnel with the necessary qualifications and professional preparation.

- ▶ Funnel. (A)
- ▶ Plug for funnel (B).
- ▶ Graduated test tubes, vol. 15ml. (C)
- ▶ Screw cap for tube. (D)
- ▶ Label for test tube. (E)
- ▶ Support for tube. (F)
- ▶ Instructions for use



CAT. NO.	Description	Sale unit
BSC740	Ejaculate collecting device with test tube 15 ml, label, stopper, single packed, sterile	40

SPRAY FOR CITOTOLOGY

Kito-Fix Spray for citology



CAT. NO.	Description	Sale unit
BS1109	Kito-Fix spray for citology	1

EJACULATE SLIDE-READ BOX

Ejaculate slide-read box composed of 25 slides of 2 determination each and 50-grid cover slips. Sample dilution is not required.

- ▶ For sperm counts in undiluted specimens
- ▶ Counting grid laser-etched into its surface
- ▶ Eliminates cleaning and minimizes clinician exposure to body fluids
- ▶ The slide consists of two chambers (for dual determinations), with a depth of 20 µm each



CAT. NO.	Description	Internal packaging	Sale unit
BSC729	Ejaculate slide-read	50	1

VAGINAL SPECULUM

Sterile central pin vaginal speculum, single packed, in polystyrene.

- ▶ Sterile
- ▶ Single packed
- ▶ in Polystyrene
- ▶ With central pin

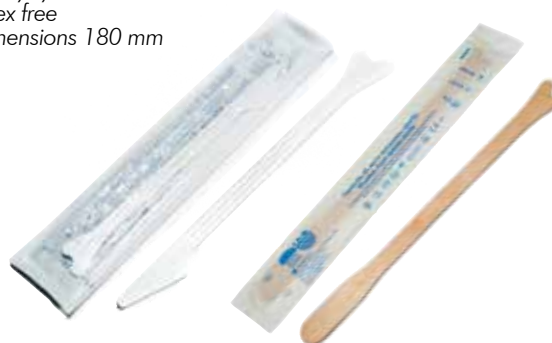


CAT. NO.	Size	Internal packaging	Sale unit
BSM240	Small	single packed	200
BSM241	Medium	single packed	200
BSM242	Large	single packed	200

AYRE SPATULES

Ayre spatule perfectly suited for sampling exocervical (outside of the cervix) for precocious diagnosis of uterus cancer

- ▶ Sterile
- ▶ Single packed
- ▶ in Polystyrene or wood
- ▶ Latex free
- ▶ Dimensions 180 mm



CAT. NO.	Material	Dim. (mm)	Sterile	Internal packaging	Sale unit
BSM018	polystyrene	180	X	Single packed	1000
BSM016	wood	180	X	Single packed	5000

CYTOBRUSHES

Disposable hendocervical sampling brush

- ▶ Also available sterile
- ▶ single packed
- ▶ 210 mm Length
- ▶ CE Marked product
- ▶ - manufactured in compliance with 93/42/EEC Directive Annex V
- ▶ Synthetic bristles non-allergic atraumatic



CAT. NO.	Sterile	Internal packaging	Sale unit
BSM009	X	single packed	1000
BSM008	-	-	50



HEMATOLOGY

For more details please visit:
<http://www.biosigma.com/hematology.html>

BIOBLOOD DEVICES

TYPESAFE™ in PVC

TYPESAFE™ in PVC segment sampling device

- ▶ Allows cells to pass through easily
- ▶ Ribbed edges allows for easy handling with gloved hands
- ▶ Fits into 10 and 12 ml tube sizes
- ▶ Wide mouth fits most standard segment sizes
- ▶ Top and bottom of device are easily identified by technicians in the blood bank
- ▶ Highlights: FDA Cleared
- ▶ Single, in-vitro diagnostic use

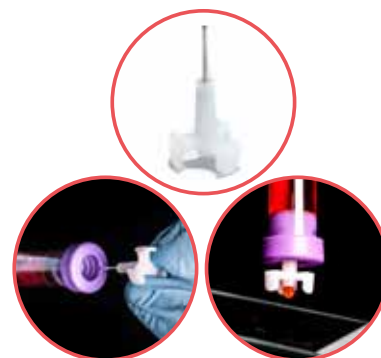


TYPESAFE™ in PVC segment sampling device

CAT. NO.	Internal packaging	Sale unit
BSA038TX	bag / 500	case / 1000

Drop slide system

Drop slide system hematological dispenser for smear (usable to pearce vacuum tubes stopper).



Drop slide system

CAT. NO.	Color	Sale unit
BSS700	white	case / 1000

BREAKLOT STICK



Breaklot stick in polystyrene

CAT. NO.	Color	Internal packaging	Sale unit
BSA066	white	bag / 1000	case / 3000

BLOOD GROUPING STRIPS



Blood grouping strip

CAT. NO.	Dimensions (mm)	Places	Sale unit
BSA039	173 x 45 x 4,8	12	case / 400
BSA037	173 x 44,5 x 6	10	case / 250

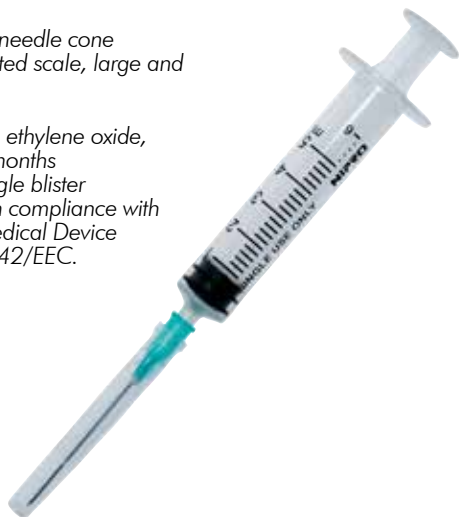
BSA037

BSA039

SYRINGES FOR BLOOD COLLECTION

Made of transparent medical polypropylene with a thermoplastic elastomer seal, latex-free; FLOMAX stainless steel needle with a much thinner wall than standard needles, less painful for the patient. The penetration of the needle into the tissues is gentle and with minimal trauma, thanks to the special sharpening of the triple-faceted needle.

- Colour code needle cone
- Black graduated scale, large and well visible
- Latex Free
- Sterilized with ethylene oxide, valid for 60 months
- Packed in single blister
- EC marked in compliance with European Medical Device Directive 93/42/EEC.



Sterile syringe

CAT. NO.	Description	Needle (G)	Sale unit
BSS130	20 ml (gr:1 -20ml) Eccentric luer slip tip	-	50
BSS131	50-60 ml (gr:1 -50/60ml) Eccentric luer slip tip	-	30
BSS133 /A	Insulina 100U 1 ml Centr. luer slip tip	26G 1/2" beige	100
BSS134	2-2,5 ml (gr:0,1 -2,5/3ml) Centr. luer slip tip	22G 1-1/4" black	100
BSS135	2-2,5 ml (gr:0,1 -2,5/3ml) Centr. luer slip tip	-	100
BSS136	5 ml (gr:0,2 -5/6ml) Centr. luer slip tip	-	100
BSS137	10 ml (gr:0,2 -11/12ml) Eccentric luer slip tip	-	100
BSS140	5 ml (gr:0,2 -5/6ml) Centr. luer slip tip	21G 1-1/2" green	100
BSS141	10 ml (gr:0,2 -11/12ml) Centr. luer slip tip	21G 1-1/2" green	100

BUTTERFLY NEEDLE

- Tube lenght 30 cm
- Sterile
- Pyrogen free
- Latex free
- Individually wrapped



Sterile butterfly needle

CAT. NO.	Needle (G)	Color	Sale unit
BSS250	21	green	50
BSS251	23	light blue	50
BSS252	25	orange	50

STERILE NEEDLE

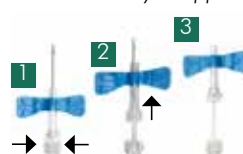


Hypodermic sterile needle

CAT. NO.	Description	Color	Sale unit
BSS230R	18 GA x 1 1/2	pink	100
BSS231R	19 GA x 1 1/2	brown	100
BSS232R	20 GA x 1 1/2	yellow	100
BSS233R	21 GA x 1 1/2	green	100
BSS234R	22 GA x 1 1/2	black	100
BSS235R	23 GA x 1 1/4	light blue	100
BSS236R	25 GA x 5/8	blue	100
BSS237R	26 GA x 1/2	beige	100
BSS238R	27 GA x 3/4	grey	100

SAFE TOUCH BUTTERFLY NEEDLE

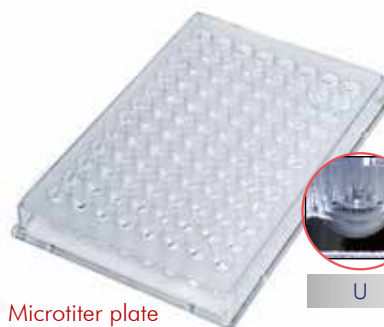
- Latex free
- With security device
- Sterile
- Individually wrapped



Safe Touch sterile butterfly needle

CAT. NO.	Needle (G)	Tube lenght	Color	Sale unit
BV100	19G x 3/4" (19mm)	300 mm	beige	50
BV101	21G x 3/4" (19mm)	300 mm	green	50
BV102	22G x 3/4" (19mm)	300 mm	black	50
BV103	23G x 3/4" (19mm)	300 mm	blue	50
BV104	25G x 3/4" (19mm)	300 mm	orange	50

96-WELL MICROTITER PLATES IN POLYSTYRENE



Microtiter plate

CAT. NO.	Sale unit	CAT. NO. STERILE	Sale unit	Bottom	Wells
BSD001	case / 50	BSD010	case / 300	U	96
BSD002	case / 50	BSD011	case / 300	V	96
BSD003	case / 50	BSD012	case / 300	flat	96
BSD013	case / 50	BSD013/S	case / 300	Cover for microtiter plate	



Plate adhesive film

CAT. NO.	Dimensions (mm)	Material	Sale unit
BSD014	120 x 80	Transparent plastic film	case / 100
106524	117 x 78	Polycarbonate	case / 100
106570	131 x 81.3	Aluminium	case / 100

Cat.No. Index

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000972	75	017030	39	035513	24	038780	40	060974	31	131024C	37
000973	75	017030A	39	035513	109	038787	41	060975	31	131028C	37
1950GHD-2-INT	20	017239	40	035514	24	039620	43	062586	31	131046C	37
02844	42	017370CL	52	035514	109	039837	88	062589	31	131048C	37
010153	37	017802	40	035515	24	039838	88	062627	30	131050C	37
010154B	37	017867	40	035515	109	039839	88	062628	30	131052C	37
010158	40	017868	40	035516	24	039840	88	062629	30	134000CL	52
010163	23	021970	42	035516	109	039841	88	064201	88	134000CLH	50
010164	23	023080	42	035517	24	039842	88	064202	88	134000CLH	51
010179	23	023190	39	035517	109	039843	88	064203	88	134750CL*	52
010181	23	023190A	39	035518	24	039844	88	064204	88	134760CL*	52
010185	23	026190	42	035518	109	039845	88	068509	74	136590	43
010186	23	027110CL	52	035519	24	039846	88	068511	74	136590	43
010207	39	027120CL	52	035519	109	039847	88	068512	74	138790	40
010208	40	028123	22	035520	24	039848	88	076058	78	138800	43
010300	56	028124	22	035520	109	039849	88	076059	78	138820	43
010310	56	028200CL	52	035521	24	039850	88	076060B	78	138870	43
010320	56	028200CLH	50	035521	109	039851	88	076084B	78	138900	43
010330	56	028200CLH	51	035522	24	040728	71	87112E	67	141397	31
010340	56	030131	23	035522	109	040729	71	87122E	67	174370	43
010350	56	030132	23	035523	24	040730	71	87123E	67	320532	31
010360	56	030133	23	035523	109	040731	71	87176E	67	320532	88
010370	56	030134	23	035524	24	040732	71	87177E	67	320533	31
010380	56	030135	23	035524	109	042820	78	087804	47	320533	88
010390	56	030136	23	035525	24	042821	78	087805	47	321009	75
010400	56	030137	23	035525	109	042822	78	087806	47	391057	74
010410	56	030138	23	035526	24	042823	78	087807	47	391058	74
010420	56	030139	23	035526	109	042824	78	090260	109	391070	33
010450	56	030560ACL	52	035527	24	045430	89	090261	109	391071	33
010460	56	030570ACL	52	035527	109	045431	89	090997	109	391072	33
010510	56	032230CL	52	035528	24	045432	89	090998	109	391073	33
011670	43	032240CL	52	035528	109	045433	89	090999	109	391074	87
014200CL	52	032250CL	52	035529	24	045434	89	092391	25	391075	87
014200CLH	50	032260CL	52	035529	109	045436	89	092392	25	391076	87
014200CLH	51	035100ACL	52	035530	24	045437	89	092393	25	391077	87
014210CL	52	035200CL	52	035530	109	045438	89	097800	47	391078	87
014210CLH	50	035210CL	52	035531	24	045439	89	097801	47	391079	87
014210CLH	51	035220CL	52	035531	109	045440	89	097802	47	391080	87
014220CL	52	035230CL	52	035532	24	045441	89	097803	47	391081	87
014220CLH	50	035240CL	52	035532	109	045442*	89	097804	47	391082	87
014220CLH	51	035260CL	52	035800	42	045443	89	097805	47	391083	87
015020CL	52	035501	24	035900	42	045464	33	097819	47	391084	87
015020CLH	50	035501	109	036060CL	52	045465	41	106524	42	391085	87
015020CLH	51	035502	24	036060CLH	50	045466	41	106524	113	391086	87
015160A	39	035502	109	036060CLH	51	045467	41	106570	113	391087	87
016000	40	035503	24	036060TCL	52	045468	41	112740	56	391088	87
016000F	40	035503	109	036164	75	045469	41	112750	56	391089	87
016001	40	035504	24	037559	89	045470	41	112760	56	391090	87
016139	39	035504	109	037560	89	045471	41	112770	56	391091	87
016155	39	035505	24	037561	89	045472	41	112780	56	391092	87
016164	40	035505	109	037562	89	045473	41	112790	56	391093	87
016166	40	035506	24	037563	89	045474	41	116280	40	446658	24
016167	40	035506	109	037564	89	045475	41	116380	40	446658	109
016303	40	035507	24	037565	89	045476	41	130340CL	52	446659	24
016389	40	035507	109	037572	89	045546	41	130510CL	52	446659	109
016511	40	035508	24	037579	33	045798	74	130510TCL	52	446660	24
016512	40	035508	109	037580	33	045799	74	131000C	36	446660	109
016513	40	035509	24	037640CL	52	048021	89	131002C	36	446661	24
016514	40	035509	109	037640TCL	52	048021B	89	131004C	36	446661	109
016517	40	035510	24	037660CL	52	048023	40	131006C	36	446662	24
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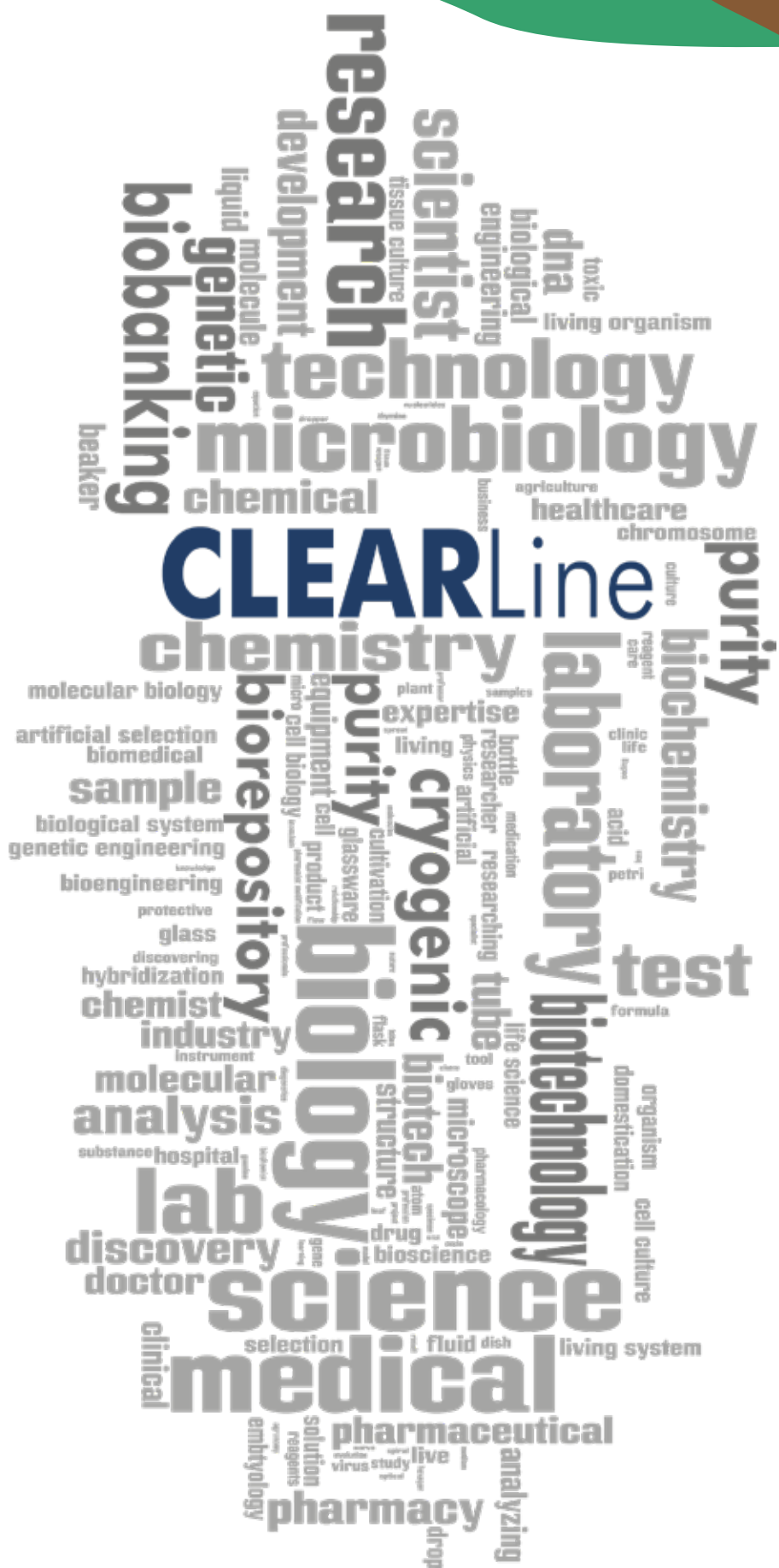
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