



**MADE**inITALY

# CATALOGUE**2017**

**BIOTECHNOLOGY AND CLINICAL CHEMISTRY PRODUCTS**



**CLEARLine**<sup>®</sup>  
*"Be cool, be safe, be CLEARLine"*



# CLEARLine®

"Be cool, be safe, be CLEARLine"

**CLEARLine is a Biosigma's registered trade mark synonymous of purity, clean and safety.**

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 clean-room 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](http://www.biosigma.com)



Registered trade mark identifying CLEARLine products  
manufactured by Biosigma



Trade mark identifying CLEARLine products distributed by  
Biosigma

## Company Profile

Since 1988 Biosigma S.r.l. 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 18001 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.

Biosigma's manufacturing are CE marked in accordance with 98/79/EC directive related to In Vitro Diagnostic Medical Devices.

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 60,000-product catalogue and more than 140 brands such as Eppendorf, Thermo, Gilson, Nalgene Nunc.

For further information visit [www.dutscher.com](http://www.dutscher.com)



## ISO 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 OHSAS 18001 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.

## CE Directive



Most of the products manufactured by Biosigma, are CE marked in accordance with 98/79/EC Directive related to in vitro diagnostic medical devices. CE certification attests that the company assumes specific responsibilities related to the compliance of the devices to all the Community rules which provide for their use: from design to manufacturing, placing on the market, putting into service of the product to disposal .

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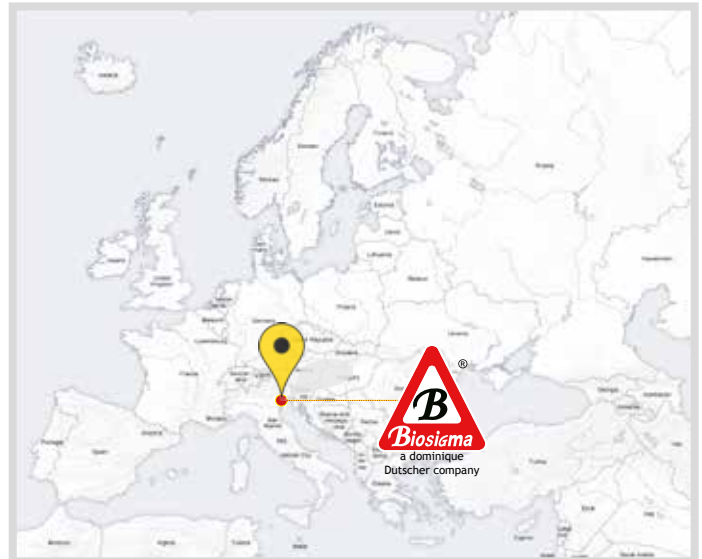
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**Opening Time (UTC+1.00):**  
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02:00 PM - 05:30 PM



adherent to:

**CONFINDUSTRIA VENEZIA**  
AREA METROPOLITANA DI VENEZIA E ROVIGO



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On our site you can find discounted products and tools.  
Material from packaging not complete and discontinued items, equipment used for demonstration purposes, or with small defects due to transport which do not affect the proper functioning of the instrument.  
For any information, contact customer service.

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## 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  $-196\text{ C}^{\circ}$ .

Biosigma CryoGen<sup>®</sup> 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<sup>®</sup> tubes, in addition to 1D linear barcode, having a 2D data matrix barcode on the tubes' bottoms.

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

Cryoboxes are made of polycarbonate to resist at temperatures as LOW AS  $-196\text{ C}^{\circ}$ . Autoclavable at  $120\text{ C}^{\circ}$  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<sup>®</sup> 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: up to  $-196\text{ C}^{\circ}$  in liquid nitrogen in the gas phase**

## 1D CRYOLINE

### CryoGen® Tubes / 1D linear barcode

- ▶ Human DNA, DNase, RNase, Pyrogen, ATP, PCR inhibitors free certified\*
  - ▶ Sterile SAL 10<sup>-6</sup> \*
  - ▶ CE-IVD marked \*
  - ▶ Certified IATA PI 650
  - ▶ Manufactured in Clean Room Class ISO 7 (UNI EN ISO 14644-1). Class 10000 (US FED STD 209E)
  - ▶ Working Temperature: up to -196 C° in liquid nitrogen in the gas phase
  - ▶ Tubes in Polypropylene / Caps in Polyethylene and TPV
- \* Certificate of analysis, Certificate of validated Beta rays treatment and Declaration of conformity CE-IVD available for download on [www.biosigma.com](http://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 (see pag 24)

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

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

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

Vials and caps are autoclavable

Printed graduations for accurate measurements

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

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

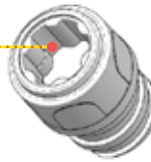
## CryoGen® Tubes / 1D linear barcode INTERNAL CAP Tubes

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



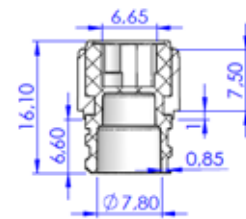
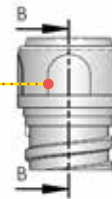
### For automatic capper/decapper

Star shaped top cavity is engineered for use with automatic decapping equipment (see page 20)



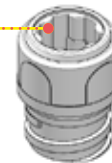
### No contamination risk

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 24)



## 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)

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



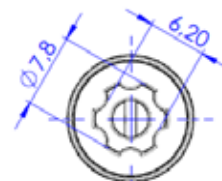
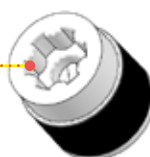
# CLEARLine®

"Be cool, be safe, be CLEARLine"



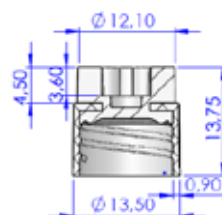
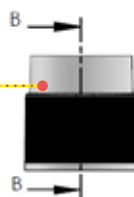
### For automatic capper/decapper

Star shaped top cavity is engineered for use with automatic decapping equipment (see page 20)



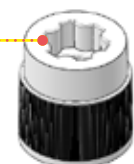
### No contamination risk

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 24)



## 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)

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

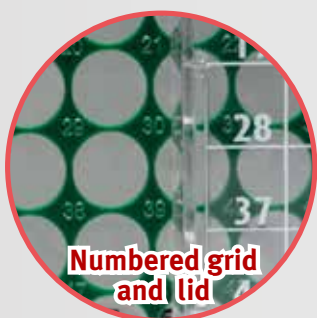


## Cryoboxes in polycarbonate

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
- ▶ 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
- ▶ 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



**25 Places**

**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



**81 Places low**

**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**

**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



**100 Places**

**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
- ▶ 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



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

Recommended for **4Banking** system



## 4Banking® - BASIC BIO-BANKING BOX



**THE EASIEST WAY TO STORE, MANAGE AND TRACK YOUR SAMPLES**



**CryoGen® Tubes**



**Scanner**



**Software**



**Basic Bio-Banking Box**

### 500 CryoGen® Tubes

- ▶ 10 bags of 50 CryoGen® tubes heat-sealed with pre-cut, resealable
- ▶ Internal or External screw cap
- ▶ Bi-injected cap (no leaking no contamination)
- ▶ Barcode “code 128A” printed on the tube, readable with provided scanner
- ▶ Serial-consecutive and unique barcode, double decoding alphanumeric clearly readable in both directions
- ▶ Large writing area
- ▶ Suitable for automatic decapper
- ▶ Made with medical grade raw materials
- ▶ Manufactured in cleanroom class ISO 7 (ISO 14644-1)
- ▶ CLEARLine® certified ( free of Human DNA, DNase, RNase, PCR inhibitors, Pyrogens, ATP )\*
- ▶ Sterile SAL 10<sup>-6</sup> \* - CE-IVD marked \*

### “Samples Quick” software

- ▶ Intuitive ‘user friendly’ software
- ▶ Customizable records
- ▶ Automatic backup of data
- ▶ Easy import/export data
- ▶ Integrable with other existing storage systems
- ▶ Pc Windows only
- ▶ 1 Quick start guide
- ▶ 1 User manual with software user guide
- ▶ Available in English or French



\* Certificate of analysis, Certificate of validated Beta rays treatment and Declaration of conformity CE-IVD available for download on [www.biosigma.com](http://www.biosigma.com)

### High performance Scanner

- ▶ 1 Affordable, high-performance handheld, scanner
- ▶ Features the industry’s fastest 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
- ▶ USB cable
- ▶ 1 user manual
- ▶ Available with USB cable or Wireless with charge base



**1D Cryoboxes in polycarbonate (see previous page) recommended to be used with 4Banking System**








Features:

- ▶ Innovative solution to manage your samples
- ▶ Linear barcode printed on the tubes and 2D DataMatrix code
- ▶ Storage location management by a 'user friendly' software
- ▶ Easy and fast sample tracking
- ▶ Custom editable information for each sample

All kits include:

- ▶ 1 USB Scanner or 1 Wireless Scanner or 1 PC-Tablet, ready to use + USB scanner
- ▶ 10 bags of 50 CryoGen® tubes, zip bag
- ▶ 1 "Samples Quick" software License
- ▶ User Manual with software guide

## 4Banking® Kits with 1D linear barcoded tubes

						
Ref. 4Banking	Ref. 4Banking	Ref. 4Banking	CryoGen® Tubes 10 bags of 50 tubes	Software License 1 User/1 Pc		
Scanner USB + USB cable	Scanner Wireless + Base Station + USB cable	PC-Tablet + Scanner USB + USB cable				
CAT.NO.*	CAT.NO.*	CAT.NO.*	Vol. (ml)	Bottom Style	Cap model	Software
BBB1BE	BBB1BEBT	BBB1BEPC	1.2	self standing	External	Samples Quick
BBB1BI	BBB1BIBT	BBB1BIPC	1.2	self standing	Internal	Samples Quick
BBB2BE	BBB2BEBT	BBB2BEPC	2.0	self standing	External	Samples Quick
BBB2BI	BBB2BIBT	BBB2BIPC	2.0	self standing	Internal	Samples Quick
BBB2E	BBB2EBT	BBB2EPC	2.0	round	External	Samples Quick
BBB2I	BBB2IBT	BBB2IPC	2.0	round	Internal	Samples Quick
BBB3BE	BBB3BEBT	BBB3BEPC	3.0	self standing	External	Samples Quick
BBB4I	BBB4IBT	BBB4IPC	4.0	round	Internal	Samples Quick
BBB4BE	BBB4BEBT	BBB4BEPC	4.0	self standing	External	Samples Quick
BBB4BI	BBB4BIBT	BBB4BIPC	4.0	self standing	Internal	Samples Quick
BBB5BE	BBB5BEBT	BBB5BEPC	5.0	self standing	External	Samples Quick
BBB5BI	BBB5BIBT	BBB5BIPC	5.0	self standing	Internal	Samples Quick
BBB5I	BBB5IBT	BBB5IPC	5.0	round	Internal	Samples Quick

\*To order the kits with French software add ending /F

## 4Banking® Kits with 2D barcoded tubes

						
Ref. 4Banking 2D DATAMATRIX	Ref. 4Banking 2D DATAMATRIX	Ref. 4Banking 2D DATAMATRIX	CryoGen® Tubes 2D 10 bags of 50 tubes	Software License 1 User/1 Pc		
Scanner USB + USB cable	Scanner Wireless + Base Station + USB cable	PC-Tablet + Scanner USB + USB cable				
CAT.NO.*	CAT.NO.*	CAT.NO.*	Vol. (ml)	Bottom Style	Cap model	Software
BBB2BE2D	BBB2BE2DBT	BBB2BE2DPC	2.0	self standing	External	Samples Quick
BBB2BI2D	BBB2BI2DBT	BBB2BI2DPC	2.0	self standing	Internal	Samples Quick
BBB5BE2D	BBB5BE2DBT	BBB5BE2DPC	5.0	self standing	External	Samples Quick
BBB5BI2D	BBB5BI2DBT	BBB5BI2DPC	5.0	self standing	Internal	Samples Quick

\*To order the kits with French software add ending /F

## 2D CRYOLINE

### CryoGen® Tubes / 2D barcode

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



Color coded inserts are available to fit both internal and external caps for quick sample identification (see pag 24)

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

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

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

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

Vials and caps are autoclavable

Printed graduations for accurate measurements

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

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**

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

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

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.

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

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

- ▶ Manufactured in Clean Room Class 10000 ISO 7
- ▶ Working Temperature: Up to -196 C° in liquid nitrogen in the gas phase
- ▶ Tubes in Polypropylene / Caps in Polyethylene and TPV

\* Certificate of analysis, Certificate of validated Beta rays treatment and Declaration of conformity CE-IVD available for download on [www.biosigma.com](http://www.biosigma.com)

### CryoGen Tubes 2D Internal cap

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



2.0 ml

5.0 ml



### CryoGen Tubes 2D External cap

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



2.0 ml

5.0 ml



#### Internal cap

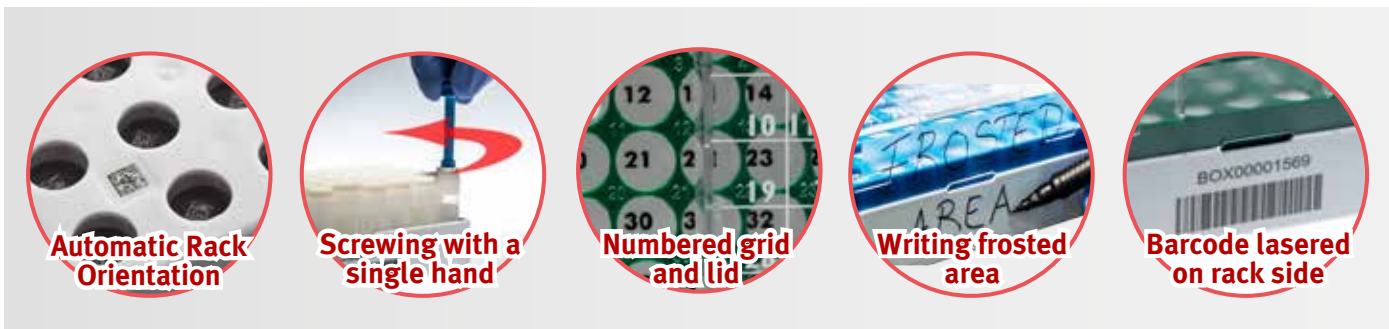
CAT. NO.	Vol. (ml)	Height (cm)	Bottom style	Internal packaging	Sale unit
CL2ARBIPS2D	2.0	4.82	Self Standing	bag / 50	case / 500
CL2ARBIPS2D/B	2.0	4.82	Self Standing	bag / 50	carton / 4000
CL5ARBIPS2D	5.0	9.03	Self Standing	bag / 50	case / 500
CL5ARBIPS2D/B	5.0	9.03	Self Standing	bag / 50	carton / 2000

#### 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
- ▶ Autoclavable at 121 °C for 20 minutes
- ▶ Vial Picker supplied with each inner pack
- ▶ White bottom
- ▶ In polycarbonate



81 Places 2D low



81 Places 2D high

### CryoGen® 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

### CryoGen® 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

### CryoGen® 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

### CryoGen® 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 on requests
- ▶ Alphanumeric bottom
- ▶ Available for both 2 and 5 ml 2D CryoGen® Tubes
- ▶ Suitable for automatic capper-decapper
- ▶ Suitable for multiscanner



**Screwing with a single hand**

**For multiscanner**

**Engraved Lid**

**Alphanumeric bottom**

**Scanning windows**



### 48 Places SBS rack

CAT. NO.	Description	Sale unit
<b>BSM58048H</b>	Rack 48 places for 5 ml int/ext CryoGen® tubes 2D	15
<b>BSM58048L</b>	Rack 48 places for 2 ml int/ext CryoGen® tubes 2D	20

### 48 Places SBS racked tubes

CAT. NO.	Description	Tubes	Sale unit
<b>BSM58048HI</b>	Rack 48 places filled with 5 ml internal CryoGen® tubes 2D	5 ml	15
<b>BSM58048HE</b>	Rack 48 places filled with 5 ml external CryoGen® tubes 2D	5 ml	15
<b>BSM58048LI</b>	Rack 48 places filled with 2 ml internal CryoGen® tubes 2D	2 ml	20
<b>BSM58048LE</b>	Rack 48 places filled with 2 ml external CryoGen® tubes 2D	2 ml	20

## Fully automatic capper / decapper for 48 places SBS rack

The new Biosigma decapper provides a simple decapping and capping solution for CryoGen® Tubes 2D in a SBS 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 2 ml CryoGen® Tubes.

- ▶ 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

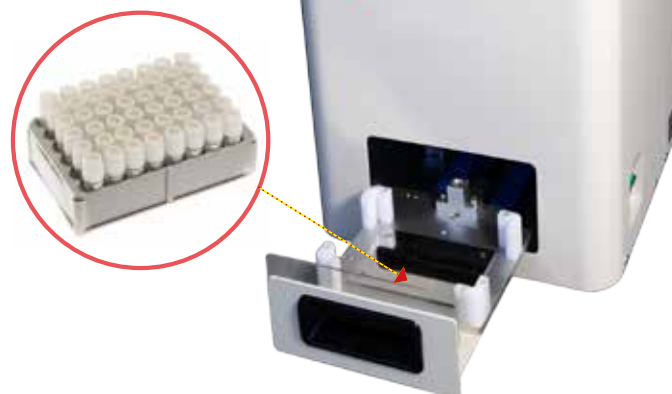
Rather than using messy mechanical means the decapper digitally measures the force applied to cap each tube. This means it is quieter than other 48 well decappers and also does not have clutches that can wear out.

### 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.

### Capper / Decapper

CAT. NO.	Description	Sale unit
<b>BSM58047</b>	Fully automatic capper / decapper	1



## SBS 2D Coded storage tubes 450 and 980 µl

- ▶ Made in low-retention virgin polypropylene
- ▶ Available in 450 µl and 980 µl
- ▶ In SBS racks or bulk
- ▶ With screw caps or cap mats
- ▶ Non-sterile or Sterile
- ▶ Certified human DNA, RNase, DNase and endotoxin-free
- ▶ Manufactured in Clean Room ISO 8 conditions
- ▶ Full traceability system :
  - 2D DataMatrix barcode under each tube
  - 2D DataMatrix & Standard barcode on each rack



### Tubes

- ▶ In low-retention virgin polypropylene
- ▶ Natural colour, excellent transparency
- ▶ 2D DataMatrix Barcode laser engraved under each tube, readable by all scanner brands
- ▶ Skirted round bottom
- ▶ Internal thread for screw caps
- ▶ For use down to -196°C with PP screw caps, -80°C with TPE cap mats (push caps)



### Racks

- ▶ Lockable lid
- ▶ Standard barcode on the side of each rack
- ▶ Corresponding 2D DataMatrix barcode under each rack
- ▶ Centre-to-centre distance between racked tubes: 9.0 mm
- ▶ International ANSI-SBS format

Rack base : 2D Datamatrix barcode under each tube and the rack

Non sterile CAT. NO.	Sterile CAT. NO.	Tubes in rack Description	Sale unit
4949038	4949039	96-tube rack, 450µl, without caps	10 racks
4949040	4949041	96-tube rack, 450µl, with blue screw caps	
4949046	4949047	96-tube rack, 980µl, without caps	
4949048	4949049	96-tube rack, 980µl, with blue screw caps	
4949054	-	Empty barcoded rack for 450µl tubes	
4949055	-	Empty barcoded rack for 980µl tubes	

Non sterile CAT. NO.	Sterile CAT. NO.	Tubes in bulk Description	Sale unit
4949042	4949043	96-tube bag, 450µl, without caps	10 bags
4949044	4949045	96-tube bag, 450µl, with blue screw caps	
4949050	4949051	96-tube bag, 980µl, without caps	
4949052	4949053	96-tube bag, 980µl, with blue screw caps	



Standard barcode on the side of each rack

Tube	Rack height w/o lid (mm)	Rack height w/ lid (mm)
450 µl	33.5	36.2
980 µl	51.5	54.2

Tube	Gross volume (µl)	Working volume with screw caps (µl)	Working volume with push caps (µl)
450 µl	660	450	540
980 µl	1230	980	1070

Tube	External diameter (mm)	Tube height w/o cap (mm)	Tube height w/ screw cap (mm)	Tube height w/ cap mat (mm)
450 µl	8.4	27.0	33.4	28.0
980 µl	8.4	45.0	51.4	46.0

## SBS Caps

### Screw Caps

- ▶ In low-retention virgin polypropylene
- ▶ O-Ring injection molded
- ▶ Compatible for automated decapping
- ▶ For use down to -196°C (over LN<sub>2</sub>)
- ▶ Manufactured under ISO 8 Clean Room conditions
- ▶ Certified free from :
  - human DNA, RNase, DNase & endotoxins



### Cap Mats

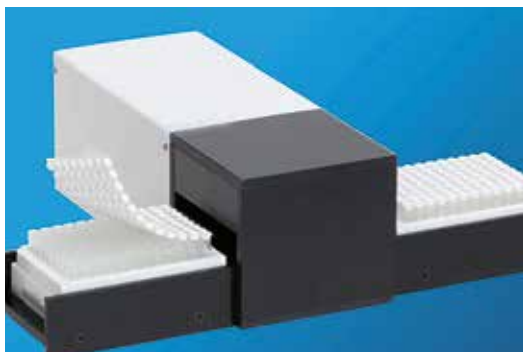
- ▶ In thermoplastic elastomer (TPE)
- ▶ Efficient sealing of internal thread tubes
- ▶ Seal 96 tubes at once
- ▶ For use down to -80°C
- ▶ Manufactured under ISO 8 Clean Room conditions
- ▶ Free of human DNA, RNase-DNase and endotoxins



Caps Description	White	Black	Blue	Red	Green	Yellow	Orange	Assorted	Sale unit
Screw Caps	4949056	4949057	4949058	4949059	4949060	4949061	4949062	4949063	960
Cap Mats	4949064	4949065	4949066	4949067	4949068	4949069	4949070	4949071	960

## Cappers - Decappers

- ▶ For screw caps or cap mats
- ▶ Available as automatic, semi-automatic or manual device



4949033



4949035



4949034



4949036

### Cappers-Decapper For Internal thread cap in PP

CAT.NO.	Model	Sale unit
4949034	Capper-Decapper semi-automatic 8 channels for screw cap	1
4949035	Capper-Decapper automatic 96 channels for screw cap	1
4949036	Capper-Decapper manual single tube for screw cap	1

### Cappers-Decapper For Cap mats

CAT.NO.	Model	Sale unit
4949032	Capper-Decapper manual single tube and 8 channel for 96 cap mats	1
4949033	Capper-Decapper semi-automatic for 96 cap mats	1
4949072	Decapper manual single-tube for 96 cap mats	1

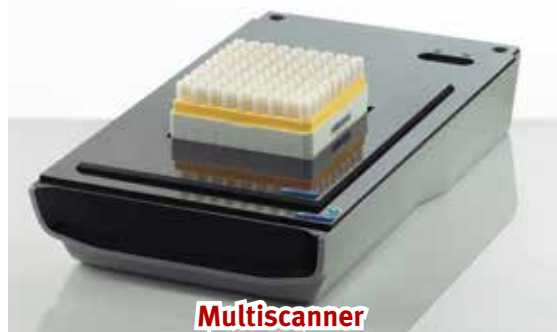
## Scanners

- ▶ Scan, track and maintain your samples
- ▶ Scans 2D datamatrix tubes in SBS and cryoracks format
- ▶ Five different masks, nearly any combination of racks is possible and up to four racks can be scanned at the same time.
- ▶ Ready to use only a few minutes
- ▶ All the exported information can be integrated into systems such as: Oracle, SQL, MySQL, Postgres, HSQL and many others.

- ▶ Scanned images can also be saved
- ▶ Can also be used with our Linear Barcode Reader so the barcode on the side of the rack can be scanned as well as the 2D codes on the tubes
- ▶ DataPac™ software displays the results of the scan
- ▶ Special coating that eliminates the condensation and ensures uninterrupted scanning.

### Multiscanner

CAT. NO.	Description	Sale unit
779912	DataPac High Speed Multiple Rack Scanner; includes one Mask from the ZTS-MXX Mask range	1
779913	DataPac High Speed Multiple Rack Scanner with Cryoprotection; includes one Mask from the ZTS-MXX Mask range	1
779940	A4 1D Rack Scanner Mark 2	1
ZTS-1DR2-A4-BRK	Extra Bracket for A4 1D Rack Scanner Mark 2	1
779916	A4 Mask for 3 * SBS Racks	1
779917	A4 Mask for 2 * Cryoracks	1
779918	A4 Mask for 1 * SBS Rack and 1 * Cryorack	1
779919	A4 Mask for 1 * Cryorack	1
779920	A4 Mask for 4 * SBS Rack	1



Multiscanner

### Single Tube Reader 1D/2D

- ▶ 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
- ▶ USB cable
- ▶ Available with USB cable or Wireless with charge base



CAT. NO.	Description	Sale unit
SG20THP-USB001	Scanner USB + USB cable	1
SG20BHP-USB002	Scanner wireless + base station BT + USB cable	1

## Software for sample management

Samples software is an easy to use and easy to learn sample management system which allows you to track and trace where your samples and what your samples are.

- ▶ Custom tracking tag and samples research method
- ▶ Detailed location of samples: institution, building, room, freezer/incubator, shelf, box etc...
- ▶ Samples editing multiple method
- ▶ Storage of information for used samples
- ▶ Multiple users software for information sharing

### Scaleable

Samples operates from one computer to an entire organisation; operating in either stand-alone mode or in client/server mode you can collaborate your sample storage from one freezer to the entire building.

### Easy to Set-Up and Easy to Use

Samples is a software management tool to help keep your samples organised. Samples will streamline your workflow by providing an organised storage system to track and maintain your samples. All information you enter into Samples can be searched using the recently enhanced Samples search facility. Stored sample information can be imported or exported and shared with colleagues. Samples integrates with DataPac™ 2D datamatrix barcode scanners, allowing for high speed scanning of sample racks and entry of the scan result into a database. The standard Samples software can be optimised to meet your exact requirements – you define the parameters used to describe your samples. And the software set up is flexible, install for one user on one computer or multiple users on a network. And all at a very affordable price.

### Tracking of Samples

Once imported, further sample details can be added for each sample, including the exact storage location. During a scan, if Samples identifies a barcode that already exists in its database, it will prompt the user to verify they wish to move the sample to the new location, therefore maintaining an up-to-date location and effective sample management.

### Custom Tracking Tags

Samples provides for standard storage information. However, this set of information may be inadequate for all users and customised tracking tags might be required. Clicking on "Tracking Tags" in the menu bar launches a new window where the customised tracking tags can be added. The tag can be in a variety of different formats, from date/time to numerical to simple text. Once a new Tracking Tag has been added, it will automatically appear in the "Add Sample" window for future scans.



rubber band colour change



overview



### 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



add tracking & storage info

## ACCESSORIES

### Writing cap disks

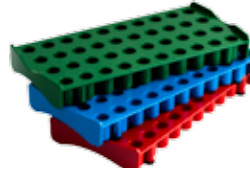
- ▶ 6 colours available
- ▶ In medical grade raw material
- ▶ Wide surface for easy writing
- ▶ For both internal and external cap



#### 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



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



#### 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



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

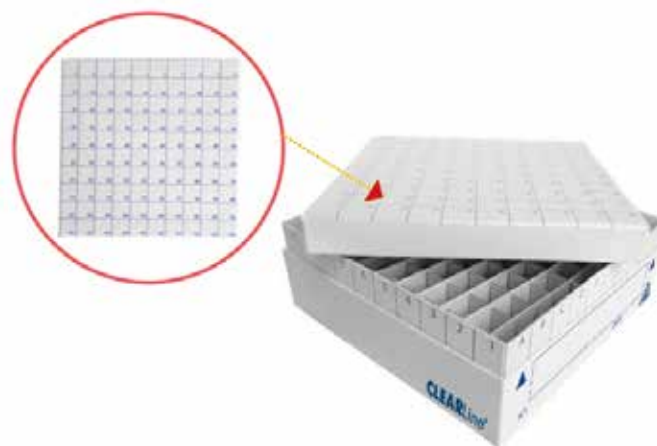
Capacity	6 x 6	7 x 7	8 x 8	9 x 9	10 x 10
<b>Tubes (mm)</b>	<b>19</b>	<b>17</b>	<b>15</b>	<b>13</b>	<b>11,5</b>
neutral	030131	030138	750207	750214	750221
yellow	030132	030139	750208	750215	750222
red	030133	750202	750209	750216	750223
green	030134	750203	750210	750217	750224
blue	030135	750204	750211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



## Cardboard Cryoboxes CLEARLine®

Specially designed for Biosigma CryoGen® Tubes internal cap.

- ▶ Usable on stainless steel vertical racks
- ▶ Made of hydrophobic cardboard
- ▶ For 100 microtubes
- ▶ Numerical grid printed on the lid and alphanumeric grid printed on the external edges of the box
- ▶ Mistake-proofing on the lid and one side of the box
- ▶ Box number and date indicated for better data visualisation
- ▶ 2 heights: 52 mm, 76 mm



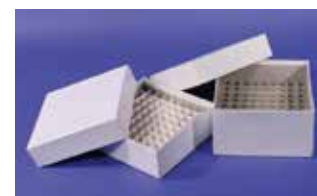
CAT. NO.	Dimensions (mm)	Sale unit
BSM58100C	132 X 132 X 52	10
BSM58101C	132 X 132 X 76	10

## Cardboard Cryoboxes

- ▶ 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



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



### Cardboard Cryobox White writing area on the cover

CAT. NO.	Color	Dimensions (mm)	Grid	Sale unit
010161	white	5	81	1
010162	white	5	100	1
010163	white	7.5	81	1
010164	white	7.5	100	1
010179	assorted	for 1 and 2 ml tubes	81	5
010181	assorted	for 1 and 2 ml tubes	100	5

### Plastic-coated cardboard cryobox White writing area on the cover

CAT. NO.	Color	Dimensions (mm)	Grid	Sale unit
010183CL	white	5	81	1
010184CL	white	5	100	1
010185	white	7.5	81	1
010186	white	7.5	100	1

## 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 polyefine 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				IMPERVIUS MODEL				Sale unit
	SMALL (S)	MEDIUM (M)	LARGE (L)	EXTRA LARGE (XL)	SMALL (S)	MEDIUM (M)	LARGE (L)	EXTRA LARGE (XL)	
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

- ▶ 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  $\varnothing$  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
- ▶  $\varnothing$  x h: 117 x 86 mm
- ▶ Screw cap

CAT. NO.	Description	Dimensions $\varnothing$ 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<sup>-6</sup>
- ▶ 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.



### 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



### 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



### Sterile microtube: 2.0 ml, o-ring cap

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

# CLEARLine®

"Be cool, be safe, be CLEARLine"



### 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:



### 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 WITH SNAP CAPS

### Microtubes in PP 1.5 and 2.0 ml

Microtube in polypropylene 1.5ml and 2.0ml, graduated, utilizable 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)



### Microtubes in PP 1.5 and 2.0 ml ClearLine

Microtube in polypropylene 1.5ml and 2.0ml, graduated, utilizable 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®**  
"Be cool, be safe, be CLEARLine"



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

CAT.NO	Color	Vol. (ml)	Dimension (cm)	with cap	Internal packaging	Sale unit
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/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/10000

### Microtube in PP, 1.5 and 2.0 ml ClearLine

CAT.NO	Color	Internal packaging	Sale unit
CL022	neutral	bag/500	case/1000
CL0269	neutral	bag/500	case/1000

## CLEARLock™ microtubes in PP with secure locking system

Microtubes in polypropylene with secure locking system and audible closing click

- ▶ Hinged lid prevent any unintentional opening during use
- ▶ Precise lid sealing avoid 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;  
5,0ml 14,200 rpm - 21,000 x g
- ▶ Temperature of use: -80°C + 100°C
- ▶ Autoclavable open at +121°C for 20 minutes
- ▶ Zip bags, re-closable
- ▶ Graduated with wiring area
- ▶ Particularly suitable for application in PCR and other applications in molecular biology
- ▶ Manufactured in Clean Room Class ISO 8 (UNI EN ISO 14644-1). Class 100000 (US FED STD 209E)



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



### 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
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
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
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
CL05.050.0001S	neutral	0.5	single bag	50
CL15.100.0001S	neutral	1.5	single bag	100
CL20.100.0001S	neutral	2.0	single bag	100
CL50.050.0001S	neutral	5.0	single bag	50
CL50.010.0020S	neutral	5.0	bag/20	200

# 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 not turn



CAT. NO.	Grid Color	Dimensions cm	Sale unit
<b>BSM5827/AZ</b>	light blue	L 18.5 P 12.0 H 5.50	case / 8
<b>BSM5827/RO</b>	red	L 18.5 P 12.0 H 5.50	case / 8
<b>BSM5827/V</b>	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 the two lengths**
- ▶ **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
<b>391070</b>	white	110 x 263 x 45	1
<b>391071</b>	blue	110 x 263 x 45	1
<b>391072</b>	yellow	110 x 263 x 45	1
<b>391073</b>	red	110 x 263 x 45	1

### Two-sided racks

Two-sided rigid polypropylene racks for storing microtubes. Autoclavable, can be frozen, they can be used as work racks on the lab bench or as storage racks.

- ▶ **1 side for 32 microtubes 1.5 ml or 2 ml + 8 microtubes 0.5 ml**
- ▶ **1 side for 32 microtubes 0.5 ml + 8 microtubes 1.5 ml or 2 ml**
- ▶ **Without lid (translucent covering lid optional)**
- ▶ **L x w x h: 258 x 79 x 28 mm**

CAT. NO.	Grid Color	Microtube capacity 0.5 ml	Microtube capacity 1.5 ml and 2 ml	Sale unit
<b>045444</b>	natural	8 and 32	8 and 32	1
<b>045445</b>	blue	8 and 32	8 and 32	1
<b>045446</b>	green	8 and 32	8 and 32	1
<b>045447</b>	orange	8 and 32	8 and 32	1
<b>045449</b>	yellow	8 and 32	8 and 32	1
<b>045450</b>	assorted	8 and 32	8 and 32	5
<b>045451</b>	Optional transparent lid			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.

The range of temperature tube can bear is from -80 °C to 100 °C. In the centrifuge machine, tube spins in the speed of 20,000 r/min. Maximum RCF(Relative Centrifugal Force) is 10,000 xg. 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 20,000 r/min
- ▶ Sterilised at gamma rays SAL 10<sup>-6</sup>
- ▶ Temperature range -80 °C to 100 °C
- ▶ 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



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

### DNase RNase free Easy Flip centrifuge tubes - 15-50 ml

- ▶ Hinged cap can be opened with one hand thanks to "Easy Flip" opening, watertight closing with a "click"
- ▶ Sterile
- ▶ RNase and DNase free
- ▶ In bag of 25
- ▶ Made from polypropylene



CAT. NO.	Description	Internal packaging	Sale unit
058100	Easy Flip tube 50 ml	bag / 25	case / 500
058101	Easy Flip tube 15 ml	bag / 25	case / 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 (cm <sup>2</sup> )	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



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 cm<sup>2</sup>
- ▶ Comes treated for the culture of adherent cells
- ▶ Flasks equipped with stacking rims
- ▶ Angled neck
- ▶ DNA, DNase, RNase, Pyrogen and Cytotoxine free
- ▶ Sterile

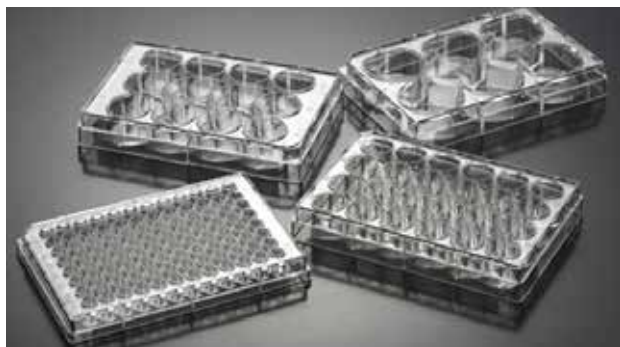


CAT. NO.	Surface (cm <sup>2</sup> )	Cap Style	Sterile	Units / Bag	Sale unit
690160	25	standard	X	10	case / 200
690170	25	squared	X	5	case / 100
690175	25	filter	X	5	case / 40
658170	75	standard	X	10	case / 200
658175	75	filter	X	5	case / 100
660160	182 Low	standard	X	-	case / 50
660175	182 Low	filter	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



CAT. NO.	Surface (cm <sup>2</sup> )	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

## 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



CAT. NO.	Surface (cm <sup>2</sup> )	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.

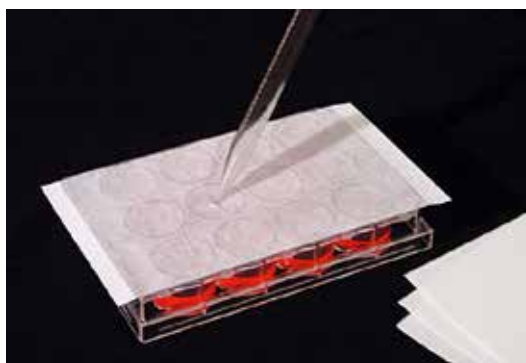
- ▶ Polyethylene
- ▶ Individually packaged
- ▶ Sterilised by gamma irradiation
- ▶ Pivoting polyethylene blade

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

## THINSEAL & SEALPLATE STERILE FILM

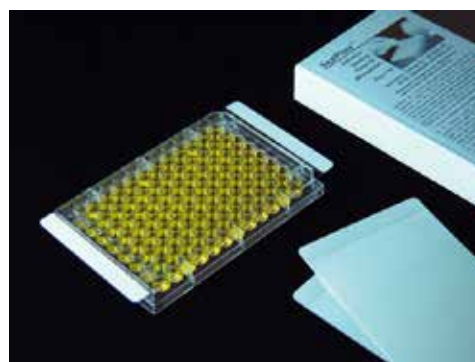
Sterile film for multiwell culture plates.

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 Mplti

- ▶ 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

DNase  
RNase



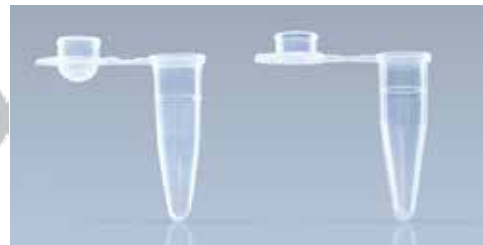
#### PCR microtube 0.2 ml Mplti

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

DNase  
RNase



#### Individual PCR tube 0.2 ml

CAT. NO.	Volume	Cap	Sale unit
010159	0.2	domed	1000
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

DNase  
RNase

Human  
DNA



- ▶ With domed or flat cap
- ▶ Highly transparent
- ▶ Secure closing system

#### PCR microtube 0.2 and 0.5 ml with domed cap

CAT. NO.	Volume	Cap	Sale unit
016131	0.2	domed	1000
016147	0.5	domed	1000

#### 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 Mplti

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

DNase  
RNase

Human  
DNA

PCR  
Inhibitors

Pyrogen



#### PCR Microtube:0.65 ml Mplti

CAT.NO.	Volume	Sale unit
015160A	PCR Microtube: 0.65 ml Mplti	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

DNase  
RNase



#### 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 M<sub>ulti</sub>

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



#### Microtube 0.2 ml strip M<sub>ulti</sub>

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 M<sub>ulti</sub>

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

### ABgene® single cap microtubes in strips

In strips of 8 microtubes with individual caps for reducing the risk of cross contamination. Available in 3 versions including 2 for PCR: ultra transparent caps supplied with two types of tubes, white or natural colored.

- ▶ Detachable single tube
- ▶ Thin wall
- ▶ In virgin polypropylene
- ▶ Certified as free from DNase, RNase, human DNA and endotoxins



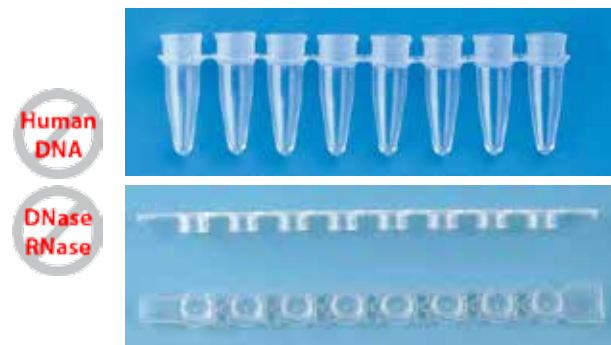
#### ABgene® single cap microtubes in strips

CAT.NO.	Volume	Sale unit
017261	Strips of 8 microtubes natural + individual caps ultra-clear	250
017262	Strip of 8 with microtubs + ultra- clear single caps	250
017263	Strips of 8 microtubes natural + individual domed caps	250

### 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 µl.

- ▶ Detachable single tube



#### 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	016000C	-	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
<b>Internal packaging</b>	250 x 8	12 x 8	250 x 8	12 x 8
<b>Sale unit</b>	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	016466
Strip of 12 microtubes + flat cap	016513	016518
Strip of 12 microtubes natural without cap	016511	-
<b>Internal packaging</b>	80 x 12	80 x 12
<b>Sale unit</b>	80 x 12	80 x 12

### 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



#### 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 AND PLATES

## 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:

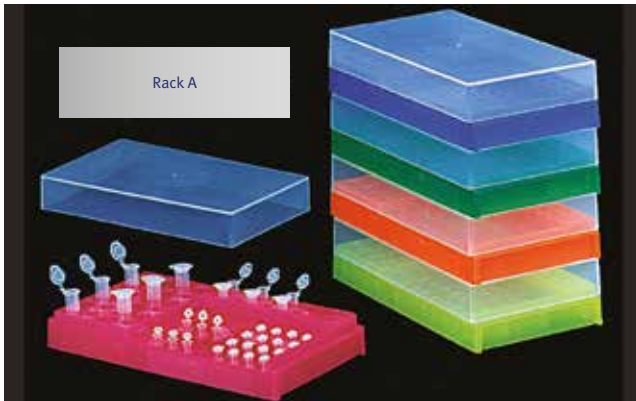
- ▶ Translucent lid included
- ▶ Choice of bright colours
- ▶ Stackable
- ▶ Alphanumeric index

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

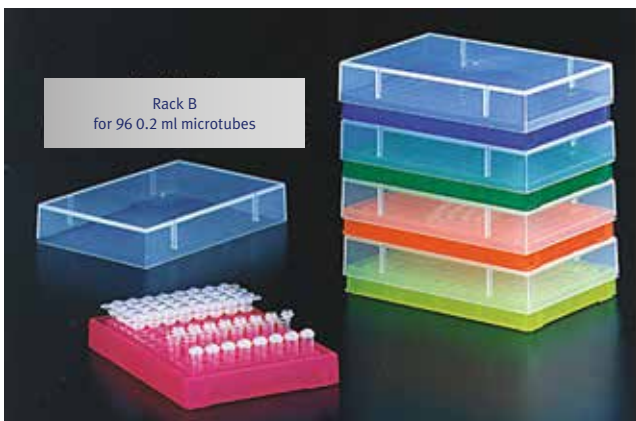
Rack A capacity:

- ▶ 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		blue	1
045466		green	1
045467	for storage of PCR microtubes - 0.2 ml - 0.5 - 1 - 2 ml	orange	1
045468		pink	1
045469		yellow	1
045470		assorted	5



### B: rack for 96 PCR microtubes - 0.2 ml

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

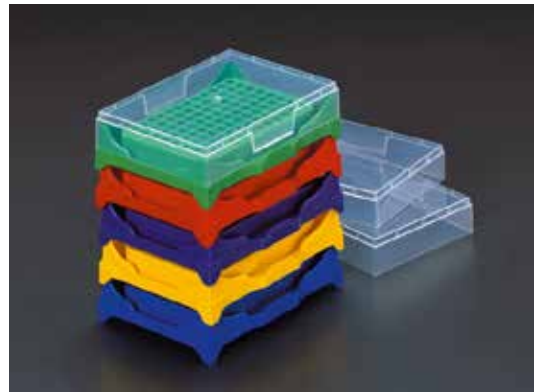
## STACKABLE RACK FOR PCR

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



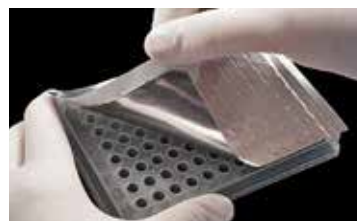
CAT. NO.	Color	Internal packaging	Sale unit
023080	natural	25	25
02844	natural	4 x 25	100

## 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	plastic	-15 °C to +70 °C	117 x 78	100
106524AL	aluminium	-30 °C to +150 °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 $\mu$ 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  $\mu$ l) that enable 250 reactions to be carried out
- ▶ The formula combines a Taq and a mix of buffers



### PCR plates Fastplate M $\mu$ lti

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

## PCR PLATES 96 AND 384 WELLS FOR LIGHT CYCLER<sup>®</sup>

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



### PCR plates 96 and 384 wells for Light Cycler<sup>®</sup>

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

## SEMI-SKIRTED 96-WELL PCR PLATES, M $\mu$ 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

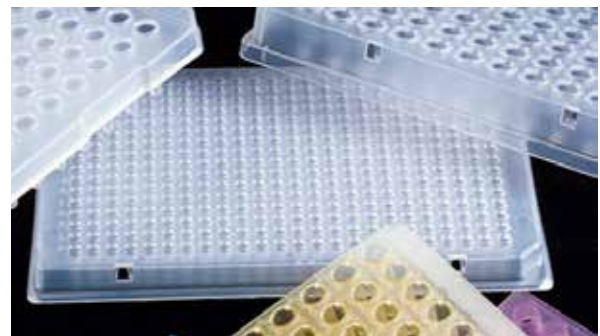
### Accessories

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

## PCR PLATES 384 WELLS $\mu$ LTRA-PLATE M $\mu$ LTI

Rigid polypropylene plate with 384 wells for PCR.

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



### PCR plates 384 wells $\mu$ ltra-Plate M $\mu$ lti

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



## LIQUID HANDLING

*For more details please visit:*

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

A wide range of liquid handling consumables such as automatic pipettes, standard tips, DNase RNase free filter tips, serological pipettes, Pasteur pipettes and reservoirs.

## ELECTRONIC MICROPIPETTES

eHPette Electronic Pipette enables fast, precise and comfortable pipetting. It has an ergonomic design and is easy to use in the laboratories. The eHPette are available in single-channel models in the first stage.

### Why you need an eHPette?

- ▶ High precision assured for everyone at all time
- ▶ Reduced physical strain with light and short key strokes
- ▶ Various useful pipetting modes

### Features

- ▶ Comprehensive range of liquid handling protocols with easy programming
- ▶ Three working modes, Pipette, Stepper Pipette and Dispenser Pipette
- ▶ High accuracy, high performance stepper motor assures precision and repeatability and eliminates manual pipetting errors
- ▶ Light in weight, (just 100 grams)
- ▶ Simplicity of operation like a manual pipette
- ▶ Self calibration – One can link it to a PC and a balance with USB connector, use specific program to calibrate eHPette by himself. No need to send it to third party for calibration.
- ▶ Efficient lithium-ion battery offers long runtime on each charge

Easy to operate with only 2 programme buttons

3 speeds for aspiration and dispensing

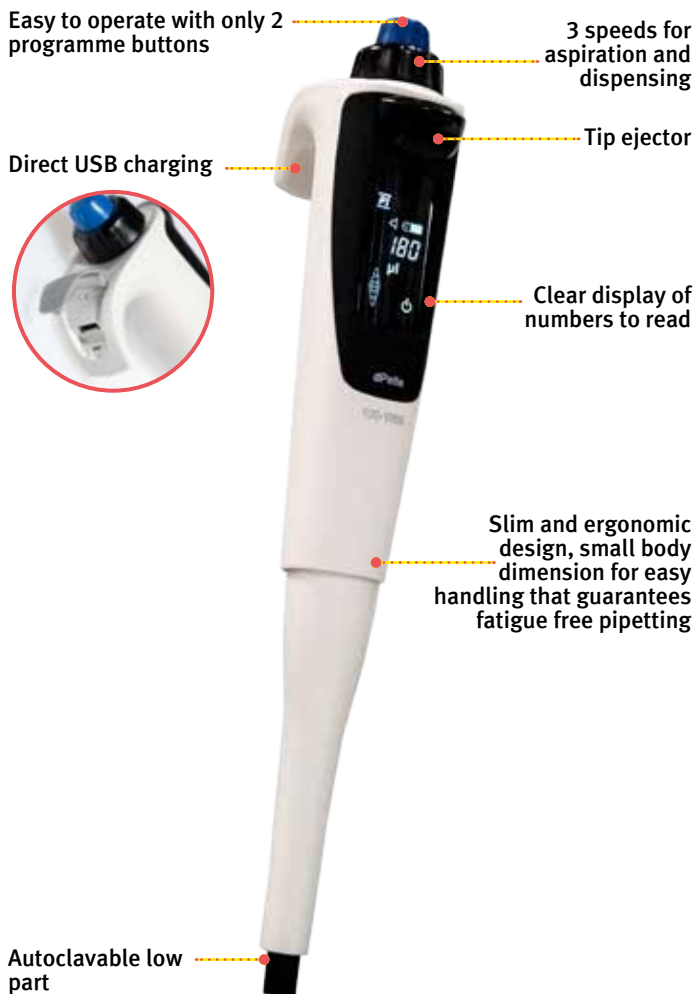
Tip ejector

Direct USB charging

Clear display of numbers to read

Slim and ergonomic design, small body dimension for easy handling that guarantees fatigue free pipetting

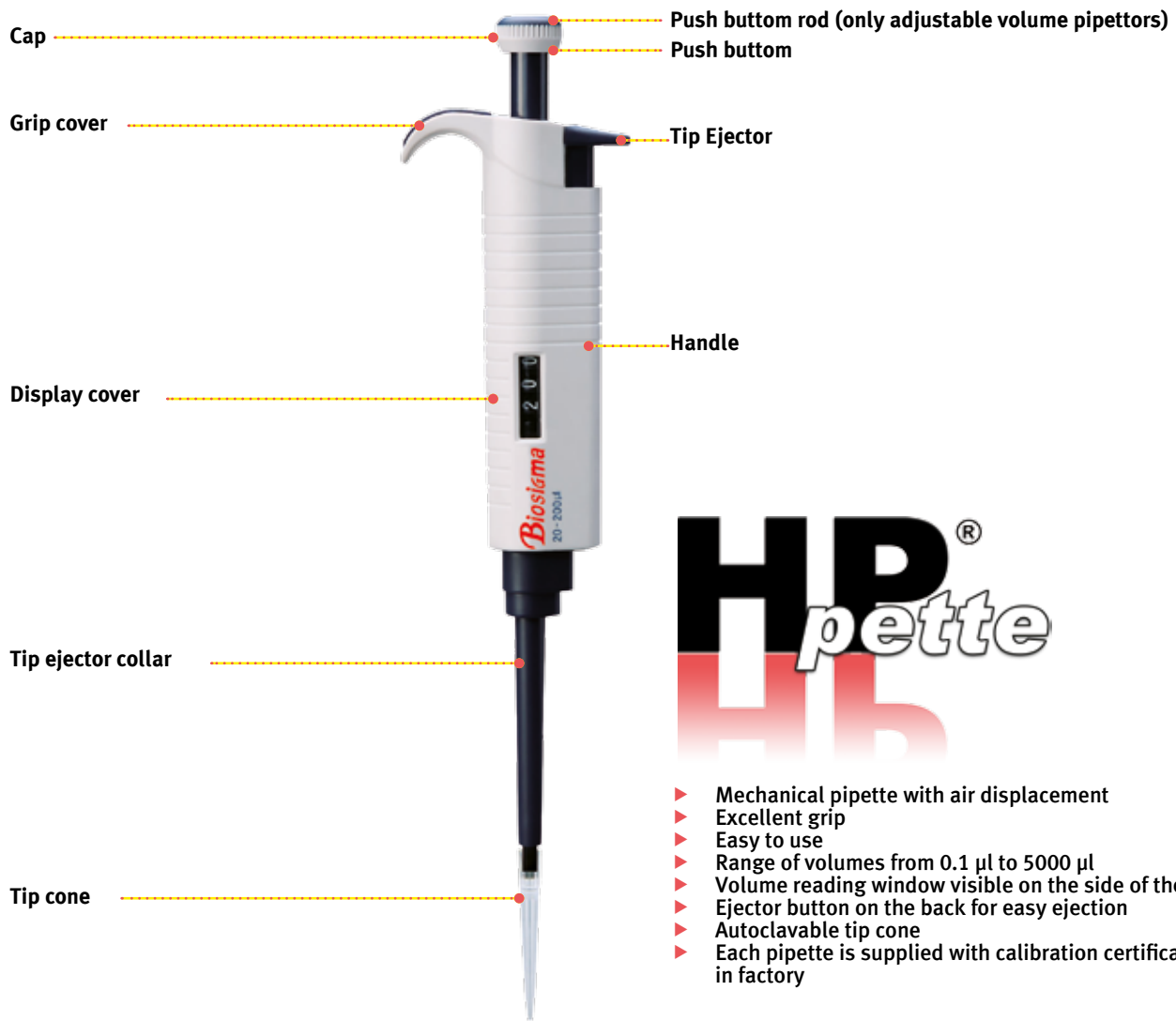
Autoclavable low part



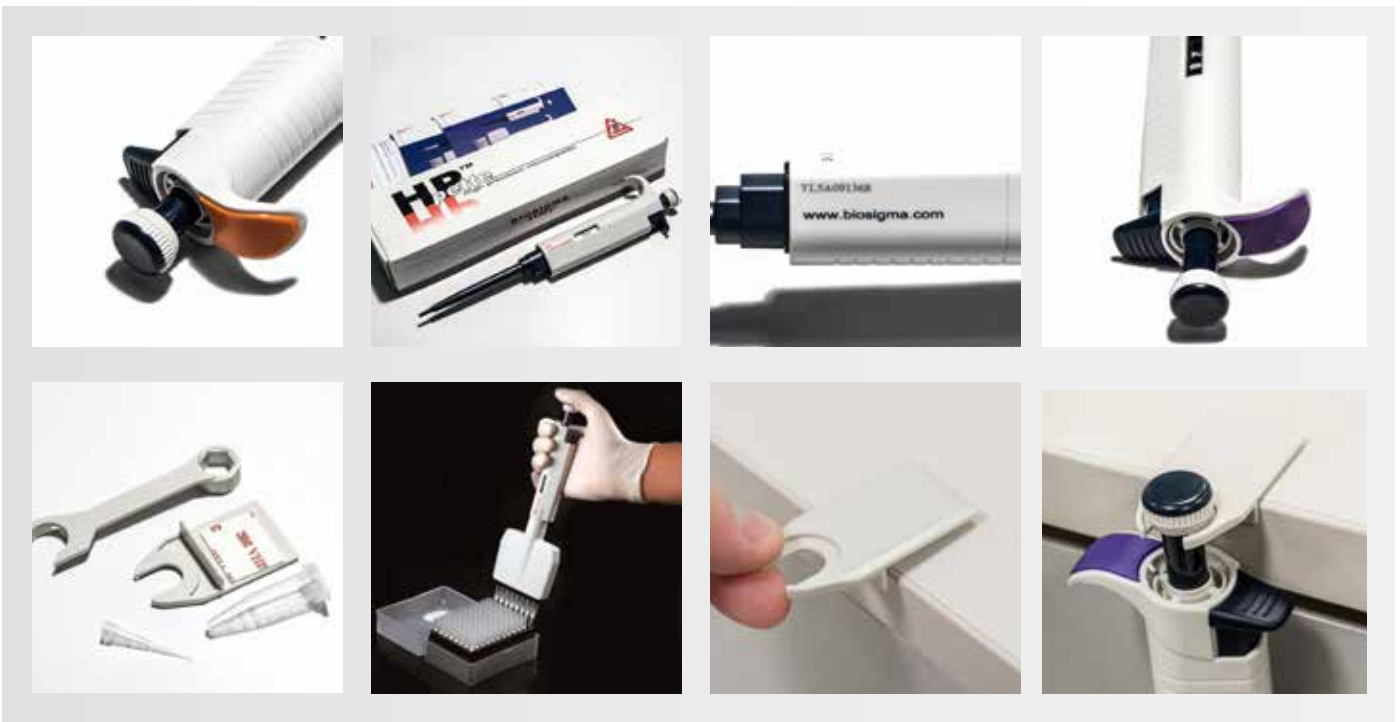
CAT. NO.	Channel	Volume Range µl	Increment µl	Test Volume		Inaccuracy		Imprecision		Sale unit
				µl	µl	µl	%	s.d.*µl	CV%*	
ABS137EHP	1	0.5-10	0.01	10 1	±0.10 ±0.035	±1.0 ±3.5	0.05 0.03	0.5 3.0	1	
ABS138EHP	1	5-50	0.1	50 5	±0.40 ±0.15	±0.8 ±3.0	0.15 0.125	0.3 2.5	1	
ABS139EHP	1	30-300	1	300 30	±1.8 ±0.9	±0.6 ±0.21	0.6 0.21	0.2 0.7	1	
ABS140EHP	1	100-1000	5	1000 100	±6.0 ±3.0	±2.0 ±0.6	2.0 0.6	0.2 0.6	1	

\*s.d. = standard deviation  
\*CV = Coefficient of variation

## MANUAL MICROPIPETTES WITH EJECTORS



- ▶ Mechanical pipette with air displacement
- ▶ Excellent grip
- ▶ Easy to use
- ▶ Range of volumes from 0.1 µl to 5000 µl
- ▶ Volume reading window visible on the side of the pipette
- ▶ Ejector button on the back for easy ejection
- ▶ Autoclavable tip cone
- ▶ Each pipette is supplied with calibration certificate performed in factory



# LIQUID HANDLING

## Fix volume



### Fix volume

CAT. NO.	Color	Volume (µl)	Compatible Tip	Sale unit
ABS119HP	fuchsia	5	BSR064	1
ABS120HP	fuchsia	10	BSR064	1
ABS121HP	orange	20	BSR066	1
ABS1210HP	orange	25	BSR066	1
ABS122HP	blue	50	BSR066	1
ABS123HP	violet	100	BSR066	1
ABS124HP	violet	200	BSR066	1
ABS1240HP	orange	250	BSR002	1
ABS1241HP	orange	500	BSR002	1
ABS125HP	green	1000	BSR002	1

## Adjustable volume



### Adjustable volume

CAT. NO.	Color	Volume (µl)	Compatible Tip	Sale unit
ABS1261HP	fuchsia	0.1 - 2.5	BSR064	1
ABS126HP	fuchsia	0.5 - 10	BSR064	1
ABS128HP	fuchsia	2 - 20	BSR066	1
ABS129HP	orange	5 - 50	BSR066	1
ABS1290HP	blue	10 - 100	BSR066	1
ABS131HP	violet	20 - 200	BSR066	1
ABS1310HP	violet	50 - 200	BSR066	1
ABS1311HP	orange	100 - 1000	BSR002	1
ABS132HP	orange	200 - 1000	BSR002	1
ABS127HP	green	1000 - 5000	BSR080	1

## Multichannel 8 channel



### Multichannel 8 channel

CAT. NO.	Color	Volume (µl)	Compatible Tip	Sale unit
ABS133HP	orange	5 - 50	BSR066	1
ABS135HP	orange	50 - 300	BSR074	1
ABS136HP	fuchsia	0.5 - 10	BSR064	1

## Rack

- ▶ Suitable for all pipette models
- ▶ With 5 stations

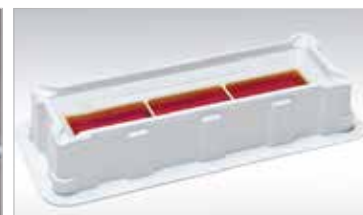


### Rack

CAT. NO.	Description	Sale unit
861006	Pipettor stands in ABS for major pipettor brands.	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<sup>-6</sup>
- ▶ Angles with deposit system
- ▶ Graduated (volume accuracy +/- 5 %)
- ▶ V bottom to maximize the samples' rescue



### 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



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	0.5-20		X	Blister 5 pcs	1000	Eppendorf® - Gilson® - Socorex® - HTL® - Nichiryo®
	BSR001	0-200	yellow		Bag 1000 pcs	25000	Eppendorf® - Brand® - Socorex®
	BSR0412				Rack 96 pcs	960	
	BSR011	5-100		X	Blister 5 pcs	2000	Eppendorf® - Gilson® - Socorex® - Nichiryo® - Pipetman® - Brand® - Clinipette® - Biohit® - Labssystem® - Excalibur® - HTL® - FinnpiPETTE®
	BSR002	200-1000	blue		Bag 500 pcs	10000	Eppendorf® - Socorex® - HTL® - Nichiryo®
	BSR0422		light blue		Rack 96 pcs	960	
	BSR012	100-1000	blue	X	Blister 5 pcs	1000	Eppendorf® - Gilson® - Socorex® - Nichiryo® - Pipetman® - Brand® - Clinipette® - Biohit® - Labssystem® - Excalibur® - HTL® - FinnpiPETTE®
	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® - FinnpiPETTE®
	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® - FinnpiPETTE® Colour model
	BSR019			X	Blister 5 pcs	500	
	BSR049/N			250-1000		Rack 192 pcs	

### 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® - FinnpiPETTE®
	BSR013			X	Blister 5 pcs	1500	
	BSR007	101-1000	blue		Bag 1000 pcs	10000	Oxford®
	BSR017			X	Blister 5 pcs	500	

## CLEARLine® 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
- ▶ CE marking : conforms to the necessary Health & Safety regulations as set by European Directives
- ▶ IVD certification: All ClearLine® tips have been registered as In Vitro Diagnostic Devices and comply with the 98/79/ EC Directive
- ▶ 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](http://www.dutscher.com/clearline) to view the tips' compatibility test results with your pipettes.
- ▶ Autoclavable at 121°C
- ▶ Supplied in a rack with non removable lid, for under hood use

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)



Certificate CE / IVD / ISO-8655



### Certification CE / IVD / ISO-8655

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



**ClearLine®**



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	<b>028200CL</b>	10x96	<b>035200CL</b>	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	<b>038000CL</b>	10x96	<b>038000TCL</b>	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	<b>130340CL</b>	10x96	-	-
Multiguard 10E	0.5-10 µl	Crystal Long tips (45.5 mm)	Eppendorf 10 µl Socorex 10 µl	<b>015020CL</b>	10x96	<b>035210CL</b>	10x96
Multiguard 20 µl	1–20 µl	Universal (50.7 mm)	Gilson P20 Eppendorf 20 µl Finnpiquette 10-20 µl Socorex 20 µl	<b>014210CL</b>	10x96	<b>035220CL</b>	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	<b>036060CL</b>	10x96	<b>036060TCL</b>	10x96
Multiguard 200 µl	1-200 µl	Universal (50.7 mm)	Gilson P200 Eppendorf 200 µl Finnpiquette 200 µl Socorex 200 µl	<b>014220CL</b>	10x96	<b>035230CL</b>	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	<b>017370CL</b>	10x96	<b>035240CL</b>	10x96
Multiguard 300 XT	1-300 µl	Long Tips (78.0 mm)	Gilson P200 Biohit 250 µl Eppendorf 200 µl Finnpiquette 200 µl	<b>130510CL</b>	10x96	<b>130510TCL</b>	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	<b>014200CL</b>	10x100	<b>035260CL</b>	10x100
Multiguard 1250 µl	50-1250 µl	Long Tips (102 mm)	for pipettes 1000 µl	<b>134000CL</b>	8x96	-	-

### Non-filter tips, racked, lift-off lid

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

\* Supplied in a rack with hinged lid

## CLEARLine® 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® Tips with hinged-lid rack



Certification CE / IVD / ISO-8655

**CLEARLine®**  
"Be cool, be safe, be 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		Volume (µl)	Tray Color	Description	Int. pack.	Sale unit
	CAT. NO.	CAT. NO.	CAT. NO.	CAT. NO.					
	713130	713135			10	red	10 µl graduated tip Length: 31.24 mm	10 x 96	960
	713114	713136			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



## CLEARLine® 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)

Certification CE / IVD / ISO-8655

**CLEARLine®**

"Be cool, be safe, be CLEARLine"

CE

IVD

ClearLine®







DNase  
RNase

Human  
DNA

PCR  
Inhibitors

Endo-  
toxins

Pyrogen

Photo	Recharge		Volume (µl)	Tray Color	Description	Int. pack.	Sale unit
	standard	Low binding					
CAT. NO.	CAT. NO.						
	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 CLEARLine® reload system

CAT. NO.	Description	Internal packaging	Sale unit
713120	Empty boxes for Clearline® 10-200 µL racked tips	10	10
713121	Empty boxes for Clearline® 1000-1250 µL racked tips	8	8



### Eco-friendly System!

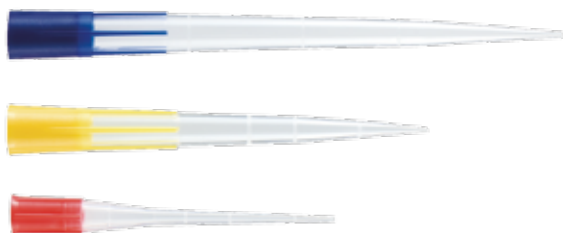
Combine ClearLine® filter and non-filter tips to reduce waste:  
**Hinged lid boxes are also compatible with ClearLine® reload rack**



## 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	Rack in Plastic		Rack in Carton E.DEK	
	CAT. NO.	Units / Case	CAT. NO.	Units / Case
10/20 µl non sterile	010300	10 x 96	-	-
10/20µl 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	
	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



## Multi 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 Multi 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 Multi	1
112750	One Touch pipette- single channel, 2 - 20 µl Multi	1
112760	One Touch pipette- single channel, 2 - 20 µl long ejector Multi	1
112770	One Touch pipette- single channel, 10 - 100 µl Multi	1
112780	One Touch pipette- single channel, 20 - 200 µl Multi	1
112790	One Touch pipette- single channel, 100 - 1000 µl Multi	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
- ▶ Sterile, single packed or peel pack / 5 pcs
- ▶ Non toxic polyethylene



### Pasteur pipette: non sterile

CAT. NO.	BSV195	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	296	160	160	160	148	125	70
Graduation ml	-	-	0.5	0.25	-	-	-
Bulb draw ml	14	1	3.5	3.5	1	1	1
Drop vol. µl	40	50	40	40	40	40	40
Internal packaging	500	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 / 2500	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



Perfect for delicate works where precision is important, such as diagnostic procedures.

- ▶ Small volume works
- ▶ Sample removal
- ▶ Colony picking
- ▶ Small drop works
- ▶ Flexible, non-toxic polyethylene



### Pipette Pasteur fine tips

Codice	BSV191	BSV192	BSV193	BSV194
Length mm	62	74	77	148
Drop vol. µl	10	10	15	10
Bulb draw ml	0.8	0.8	0.8	4.5
Internal packaging	2000	2000	2000	500
Sale unit	10000	10000	10000	5000

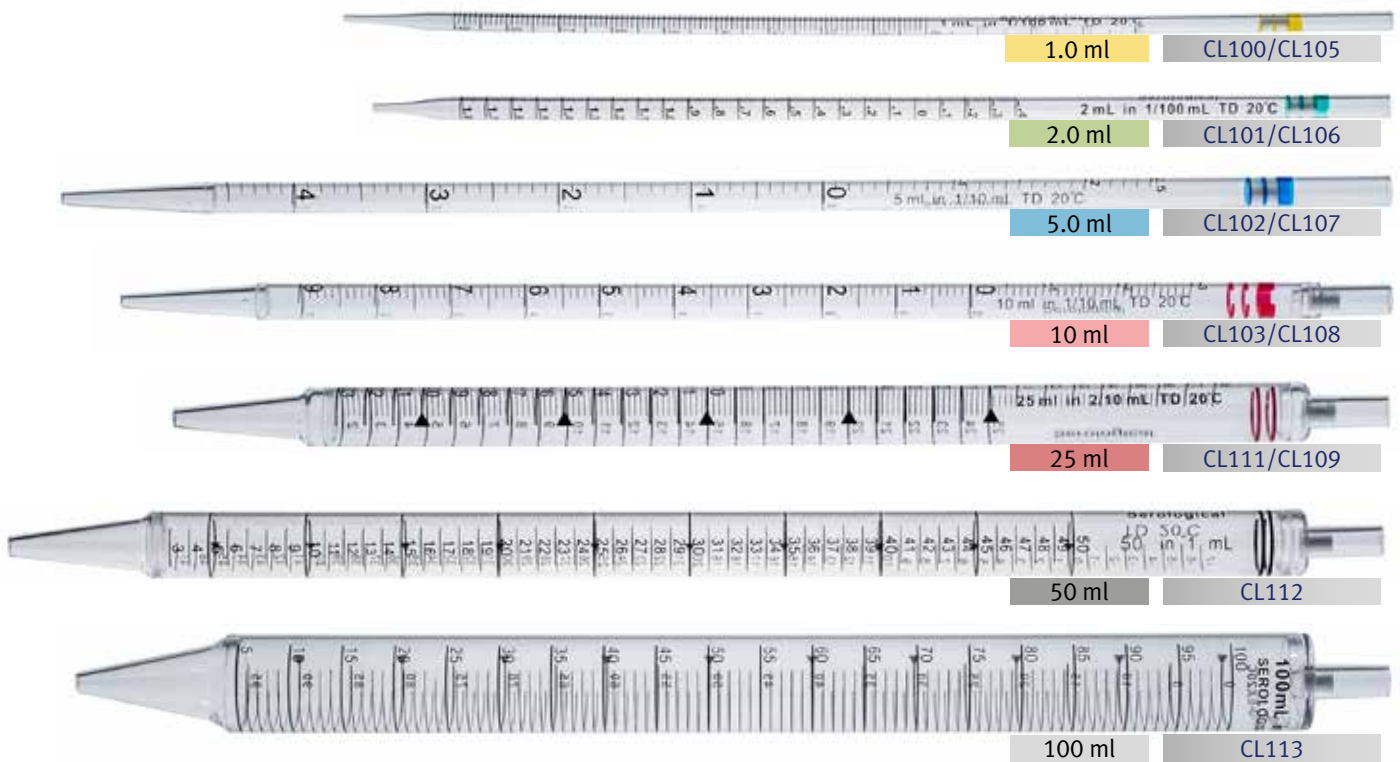
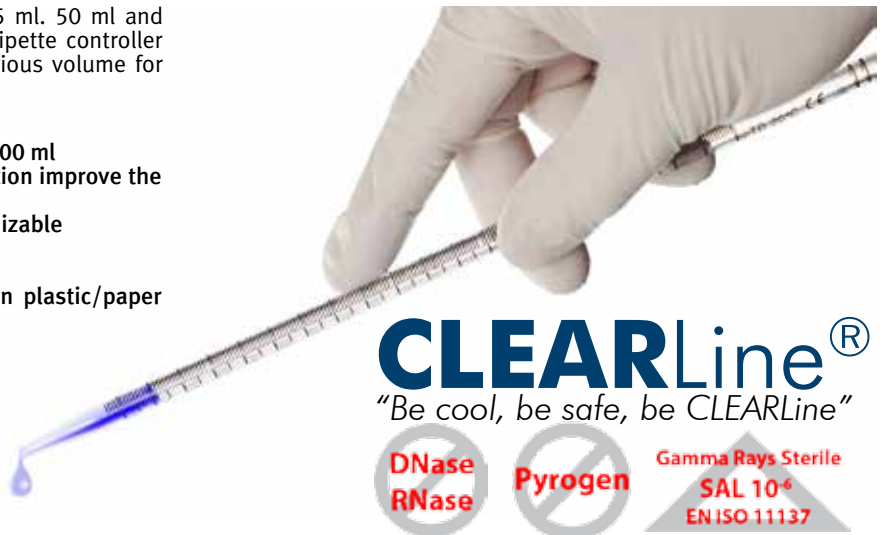
## CLEARLine® SEROLOGICAL PIPETTES

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

Packaging information

- ▶ Lot number printed on packaging for tracking
- ▶ Plastic/paper wrapper easy to open



### Sterile individually wrapped

CAT. NO.	Volume (ml)	Graduation (mm)	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	25	100
CL113	100	1	50	50

### Sterile in bags

CAT. NO.	Volume (ml)	Graduation (mm)	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



## AUTOMATIC 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

### Technical specifications

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

CAT. NO.	Description	Sale unit
BS400200	Levo plus pipetting	1
BS400201	0.45µm filter replacement for BS400200	1



BS400201

BS400200

## MANUAL ASPIRATION SYSTEM FOR SEROLOGICAL PIPETTES

- ▶ 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
- ▶ Replaceable spare 3 µm filter
- ▶ 4 colours

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
861005	Spare filter 3 µm		1



## SUPPORT FOR 94 PIPETTES

- ▶ Polypropylene
- ▶ Mobile support
- ▶ For 94 pipettes



CAT. NO.	Description	Sale unit
391522	Support for pipettes, 230 x 470 mm (ø x H)	1



## 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



### 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



### 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

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

## CUVETTES AND CUPS UTILIZABLE ON HITACHI®



### Cuvette utilizable on HITACHI® 704/705 in methacrylate

CAT. NO.	Internal packaging	Sale unit
BSA099	6 sectors of 8 cells	24 (4 sets of 6 sectors)



### 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)



### 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)



### 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)



### Polystyrene sample cup utilizable on HITACHI® vol. 3ml

CAT. NO.	Dimensions	Internal packaging	Sale unit
BSA031	H 3.81 Ø1.21 cm, Ø1.70 (max)	bag / 250	case / 6000



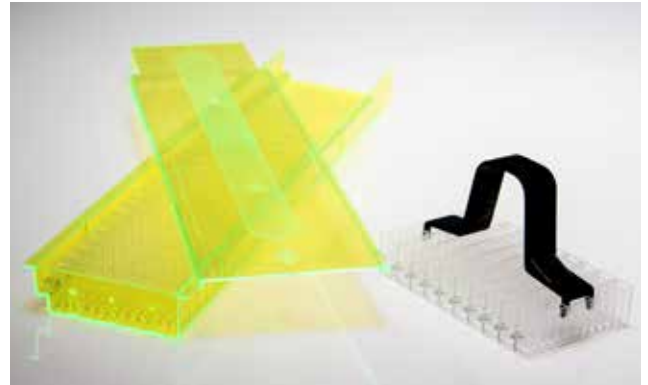
### Bionex single cuvette

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

HITACHI® is a registered trade mark by HITACHI JAPAN

## 12 CELLS CUVETTE

12-cell cuvette in Methacrylate. Carton of 30 racks supplied with 2 pliers. Plier is needed to transfer the cuvettes from the rack into the analyzer. Cuvette : H 2.00 L 5.20 D 0.86 cm



### 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 CENTRICHEM 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 Biotecnica 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
BSA636	1	13	H 2.97 Ø 0.94 (max Ø 1.38)	500 / bag	10000 / case
BSA646	2	16	H 2.97 Ø 1.24 (max 1.67)	1000 / bag	8000 / case



BSA646



BSA636

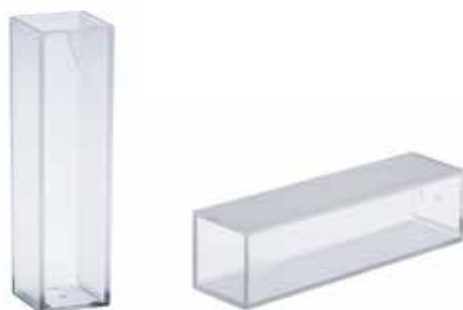
## SEMI-MICRO AND MACRO CUVETTES

### 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.

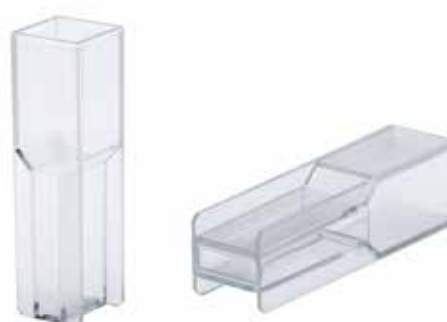
- ▶ Glass clear polystyrene or methacrylate
- ▶ Optimal results on both transmittance and absorbance tests compared with the most known brands in the market
- ▶ Applicable wavelength range 340 to 900 nm (PS) and 300 to 900 nm (PMMA)
- ▶ Path length 10 mm
- ▶ Maximum variability between the two walls 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
- ▶ CE marked

#### Macro



BSA001/BSA001M

#### Semi-micro



BSA002/BSA002M

#### Macro Cuvettes, volume 4 ml

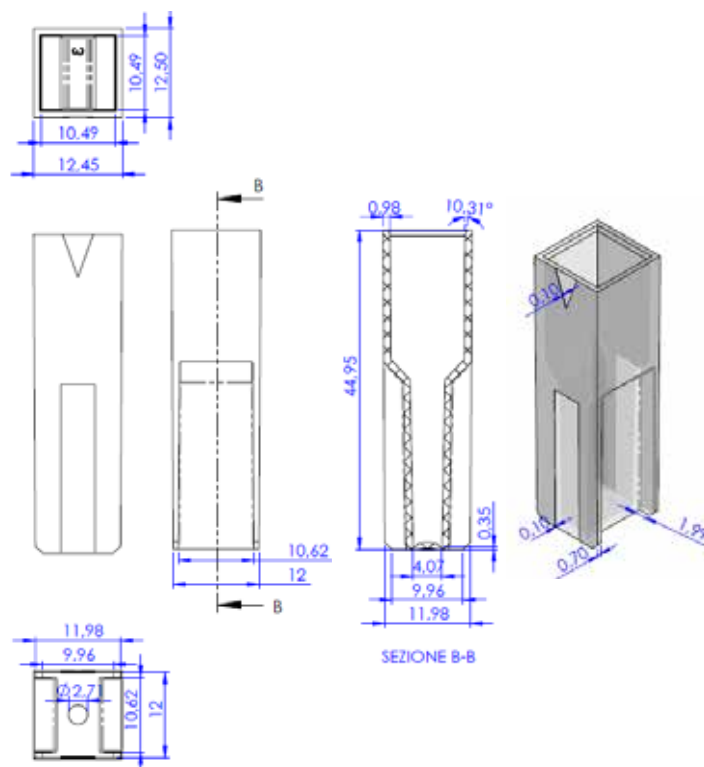
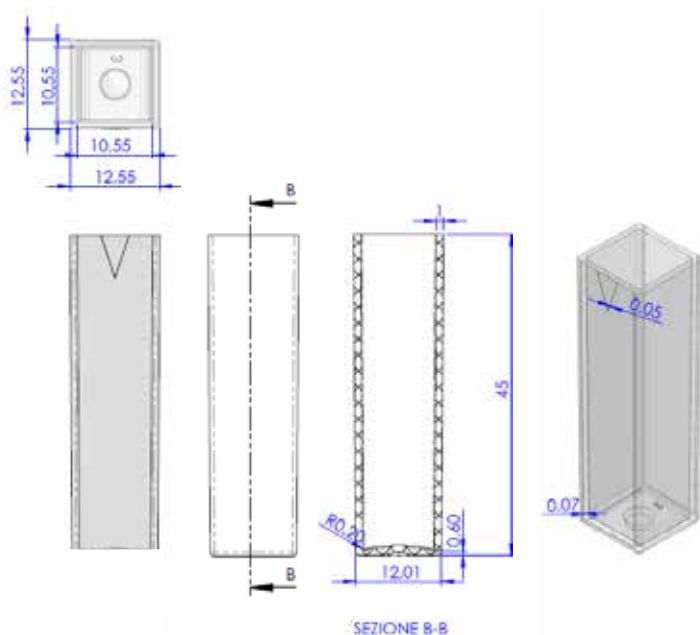
CAT. NO.	Raw material	Dimensions (mm)	Internal packaging	Sale unit
BSA001	Polystyrene (PS)	12.5 x 12.5 x 45	rack / 100	1000
BSA001M	Methacrylate (PMMA)	12.5 x 12.5 x 45	rack / 100	1000

\* Only BSA001M

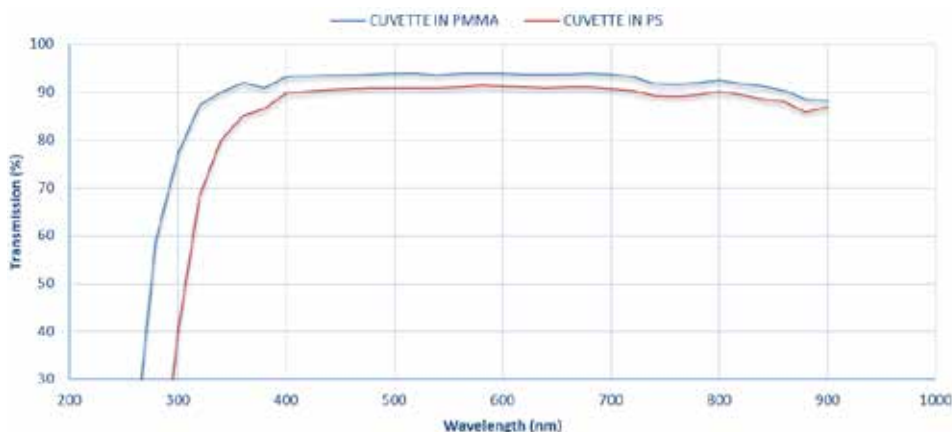
#### Semi-Micro Cuvettes, volume 2 ml

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

\* Only BSA002M



## 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 repetiveness 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>*

## FOR THE STANDARDIZATION OF MICROSCOPIC URINALYSIS

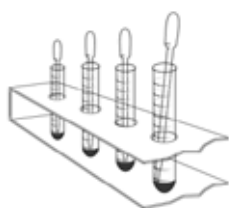
The FAST READ 102® system improves the standardization of microscopic urinalysis and provides precision and reproducibility to guarantee constant readings which will not be influenced by variations of techniques among different operators.

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.

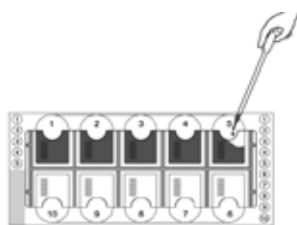
**MATERIALS:** The BVS100 device is manufactured in METHACRYLATE: rigid, transparent, resistant to atmospheric agents, it replaces the glass in every its applications reaching high temperatures (lower than 90-100 °C).



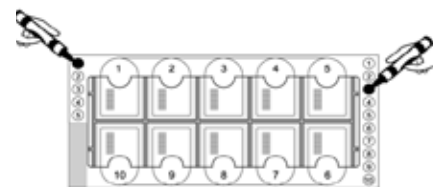
This product fulfils the requirements of Directive 98/79/EC on in vitro diagnostic medical devices



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

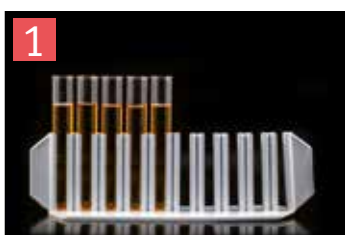


Use the pipette to mix the urinary sediment by repeatedly pressing the bulb; then dispense a drop of sample onto the appropriate area of the slide.



**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 / $\mu\text{L}$ IN URINARY SEDIMENT

FAST READ 102<sup>®</sup> 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  $\mu\text{L}$ .

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 $\mu\text{L}$  to 1 $\mu\text{L}$

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  $\mu\text{L}$ , the formula for determining the concentration of cells (cells / ml) is:

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

10<sup>4</sup> = conversion 0.1  $\mu\text{L}$  in 1 ml

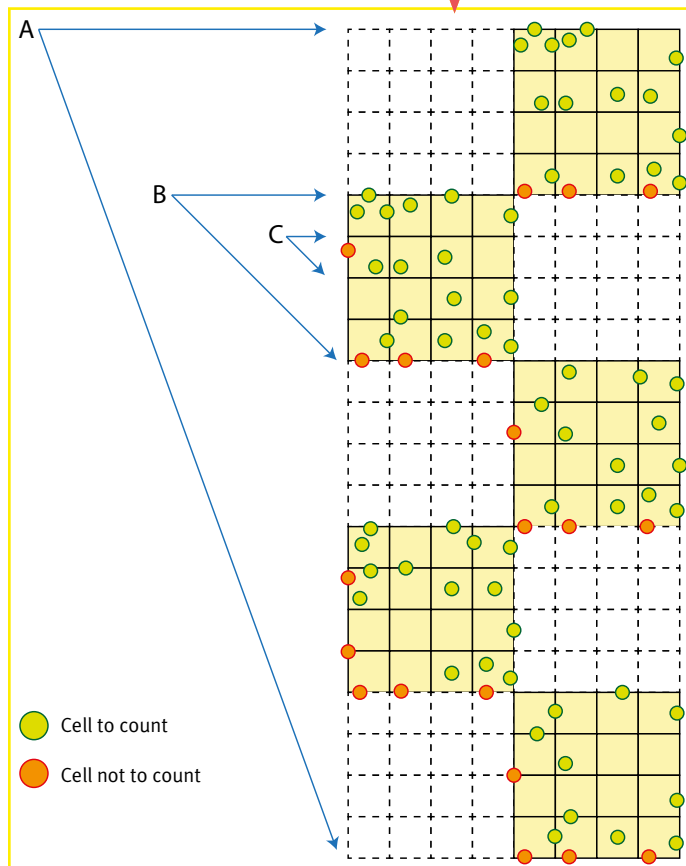
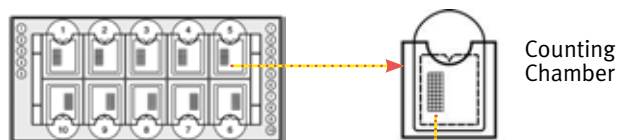
Pay attention to the cells on the edges, you should only count those on either side, to avoid over or under counting risk.

In the example shows, 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<sup>2</sup>

$$[\text{Cells / ml}] = (67/5) \times 10^2 \times 10^4 = 13.4 \times 10^6$$



A: GRID	
Dimensions	2 mm x 5 mm
Depth	0.1 mm
Volume	1 $\mu\text{L}$
Each grid includes	10 squares
Cell volume	7 $\mu\text{L}$
B: SQUARE	
Dimensions	1 mm x 1 mm
Depth	0.1 mm
Volume	1 $\mu\text{L}$
Each square includes	16 sector
C: SECTOR	
Dimensions	0.25 mm x 0.25 mm
Depth	0.1 mm
Volume of sector	0.00625 $\mu\text{L}$



#### Publication in scientific journal.

Validation of analytical methods in GMP: the disposable Fast Read 102<sup>®</sup> 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](http://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 P	White Cap aside	Test Tube 10 ml in PS labelled with white cap	Stain urinary sediment
	(BVS100)	(BSV143)	(BSV140)	(BSP074)	(BS0026)	(BSP112)	(BVS135)
CAT. NO.							
BVS100	●						
BVS101	●		●				
BVS102	●		●				●
BVS190		●		●			
BVS171	●	●					
BVS1715	●	●		●			
BVS1719	●	●		●	●		
BVS1717	●	●		●			●
BVS1720	●	●		●	●		●
BVS1721	●	●				●	●

## 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



# 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 without 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



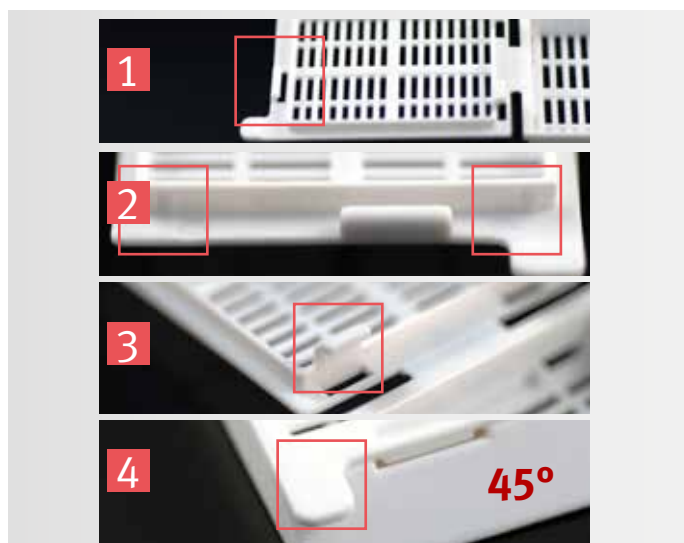
**Embedding ring**

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 (5x1mm)



### Biopsy cassettes

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



#### 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



Microscope slides with paper



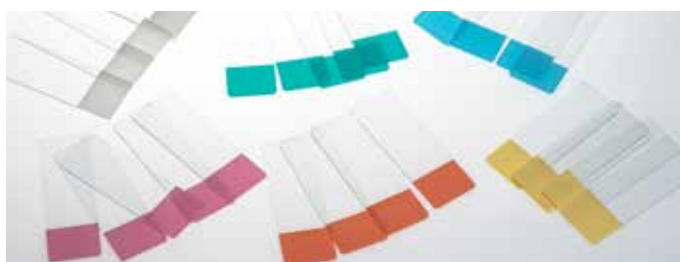
Microscope slides without paper

### 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

- ▶ Cabinet with 5 drawers for microscope slide storage
- ▶ Can take up to 5000 slides
- ▶ Each drawer can be completed with racks for 100 slides
- ▶ The rack itself is closed by a transparent lid
- ▶ The cabinet is supplied with the drawers, without the racks



### Slide storing system

CAT. NO.	Description	Dimensions (mm)	Raw Material	Sale unit
391180	Package of 5 drawers with lids, without supports	420 x 420 x 725	ABS	1
391181	Set of 4 wheels (castors)	-	-	1
391182	Storage rack 100 slides	360 x 38 x 100	PP	1
391183	Lid for rack	345 x 35 x 40	PS	1
391184	Single drawer unit without support	420 x 420 x 140	-	1
391185	Lid for drawer	420 x 420 x 25	-	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, Hellendahl 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, Hellendahl type

CAT.NO.	Descriptions	Capacity	Sale Unit
068509	Hellendahl 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
BSI114	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

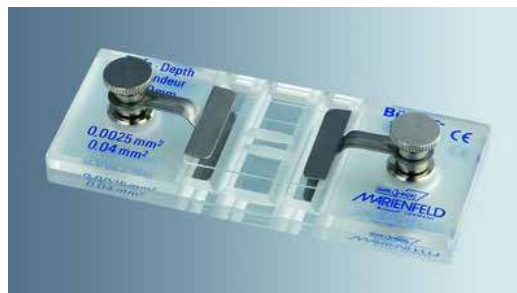
- ▶ CE marked
- ▶ Products with special optical glass
- ▶ Tolerances of the depth of the chamber 2% (max)
- ▶ In compliance with DIN ISO 12847

### 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

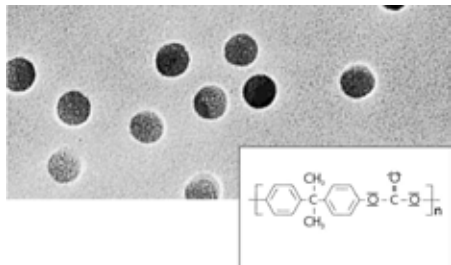
Codice	Chamber type	With pliers	Grid type	Sale Unit
900510	Burker	pliers standard	bright line	1
900514	Fuchs-Rosenthal	pliers standard	dark line	1
900509	Nageotte	pliers double	dark line	1
900511	Neubauer	pliers double	dark line	1
900512	Thoma Cell Rete	with clips	dark line	1

### Coverslip for counting chamber

Codice	For chamber	Dimensions (mm)	Thickness (mm)	Sale Unit
VBS626	Fuchs-Rosenthal	24 x 24	0.4	1
VBS627	Burker	21 x 23	0.4	1
VBS628	Neubauer	21 x 26	0.4	1
VBS629	Thoma Cell Rete	22 x 22	0.4	1
VBS630	Nageotte	30 x 30	0.4	1

## MEMBRANE IN PC

Membrane in PC 5.0 µm 19 x 42 x 100



CAT.NO.	Descriptions	Sale Unit
036164	Membrane in PC 5.0 µm 19 x 42 x 100	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
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 0.1mm across
- ▶ 10 µm space between the cell and the coverslip

### Makler cell

CAT.NO.	Descriptions	Sale Unit
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

Disposable loops 1 and 10 µl, 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 µl
- ▶ Peel-pack

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



10 µl



### Inoculation loop: 10 µl

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



1 µl



### Inoculation loop: 1 µl

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



## 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



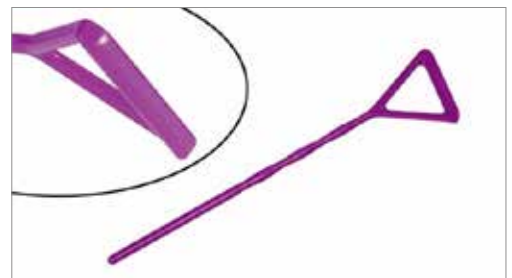
### Sterile T-shaped spreader

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

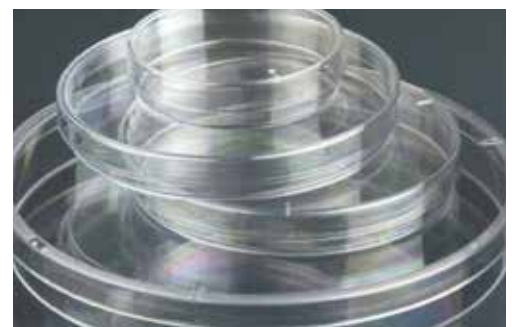
Disposable round petri dishes in transparent polystyrene, available sterile, not sterile, with and without vents for some specific automatic machines.

CAT. NO.	Ø mm	Ventilation	For autom. machines	Sterile	Internal packaging	Sale unit
BSM200	60			X	bag / 10	case / 1000
BSM212	90	X	X		bag / 20	case / 500
BSM2120	90	X	X	X	bag / 20	case / 480
BSM215	100	X		X	bag / 10	case / 500
BSM220	120			X	bag / 20	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
076060	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 Diptheriae*, *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.



- ▶ Sterile
- ▶ Plastic or aluminium applicator
- ▶ Cotton swab
- ▶ Without medium
- ▶ Tubes in polypropylene



### Dry swab: wooden applicator 150 mm

CAT. NO.	Sterile	Length (mm)	Internal Packaging	Sale unit
BSM031	X	150	Individually wrapped	500
BSM030		150	bag / 2000	10000

### Sterile swab with applicator. Tube Ø12x150mm in polypropylene without medium

CAT. NO.	Applicator material	Cap color	Internal Packaging	Sale unit
BSM032	Plastic	white	400	2400
BSM032/M	Aluminum	orange	400	2400

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



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



### 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 wooden tongue depressor: single packed wrapped, sterile

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



# TEST TUBES, STOPPERS, RACKS

For more details please visit:

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

## 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.

The range of temperature tube can bear is from -80 °C to 100 °C. 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<sup>-6</sup>
- ▶ Temperature range -80 °C to 100 °C
- ▶ 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	

# TEST TUBES, STOPPERS, RACKS

## STERILE POLYPROPYLENE CENTRIFUGE TUBES WITH SCREW CAPS

- ▶ Graduated
- ▶ Writing area
- ▶ Sterile
- ▶ In polypropylene
- ▶ Screw cap
- ▶ Conical bottom or self-standing

CAT. NO.	Volume (ml)	Dimensions (mm)	Bottom	Graduation	Label	Cap	Internal packaging	Sale unit
BSM482	15	Ø 17 x 120	conical	X	engraved	X	bag / 50	case / 500
BSM474	50	Ø 30 x 115	conical	X	engraved	X	bag / 50	case / 500
BSM477	50	Ø 30 x 115	self-standing	X	engraved	X	bag / 25	case / 500



BSM482

BSM474

BSM477

## 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
BSM483	15	Ø 17 x 120	conical	X	engraved	blue	bag / 50	case / 500
BSM470	10	Ø 16 x 100	cylindrical			red	bag / 200	case / 1800
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



BSM483

BSM470

BSP2501

## FLAT BOTTOM TEST-TUBES WITH SCREW CAPS

- ▶ Non sterile
- ▶ Screw cap
- ▶ Flat bottom

CAT. NO.	Volume (ml)	Dimensions (mm)	Bottom	Screw cap	Raw material	Cap	Internal packaging	Sale unit
BSM440	10	Ø 15 x 100	flat	X	polystyrene	white	100	2000
BSM441	5	Ø 15 x 55	flat	X	polypropylene	blue	100	2000



BSM440

BSM441

## 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	Int. Pack	Ext. Pack
BV057	for 4 ml of urine	13 x 75	X		100	1200
BV058	for 6 ml of urine	13 x 100	X		100	1200
BV059	for 10 ml of urine	16 x 100	X		100	1200
BV060	for 10 ml of urine	16 x 100	X	X	100	1200

## 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



**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 xg.

- ▶ 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
BSTA23	5	Ø 12 x 86	cylindrical	methacrylate	white	X	case / 1000
BSTA33	4	Ø 13 x 75	cylindrical	methacrylate	white	X	case / 1000



## TEST TUBES WITH TWO-POSITION CLOSURE CAP

In polystyrene, graduated 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 / 50	case / 500
BSF2054/CS	5	Ø 12 x 75	cylindrical	X	engraved	X	individually wrapped	case / 500
BSF2051	14	Ø 17 x 100	cylindrical	X	engraved	X	bag / 50	case / 500
BSF2051/CS	14	Ø 17 x 100	cylindrical	X	engraved	X	individually wrapped	case / 500



## NON STERILE TEST-TUBES

### 3 ml volume tube

CAT. NO.	Dimensions (mm)	Bottom	Raw material	Rim	Graduation (ml)	Note	Label	Internal packaging	Sale unit
<b>BSA060</b>	Ø 11 x 70	cylindrical	polystyrene			for R.I.A.		bag / 1000	case / 6000
<b>BSP068</b>	Ø 12 x 51	flat	polypropylene	X	1.25 / 25 / 2.5			bag / 1000	case / 5000
<b>BSP069</b>	Ø 12 x 51	flat	polypropylene	X	1.25 / 25 / 2.5		X	in bulk	case / 7000
<b>BSP082</b>	Ø 12 x 51	flat	polystyrene	X	1.25 / 25 / 2.5			in bulk	case / 7000
<b>BSP083</b>	Ø 12 x 51	flat	polystyrene	X	1.25 / 25 / 2.5		X	in bulk	case / 7000
<b>BSP066</b>	Ø 12 x 56	cylindrical	polypropylene	X	0.5 / 1 / 2 / 3			in bulk	case / 7000



### 5 ml volume tube

CAT. NO.	Dimensions (mm)	Bottom	Raw material	Rim	Graduation (ml)	Color	Label	Internal packaging	Sale unit
<b>BSA059V</b>	Ø 12x75	cylindrical	polystyrene			neutral		bag / 1000	case / 4000
<b>BSA059V/P</b>	Ø 12x75	cylindrical	polypropylene			neutral		bag / 1000	case / 4000
<b>BSA0592</b>	Ø 12x75	cylindrical	polystyrene			blue		bag / 1000	case / 4000
<b>BSP056</b>	Ø 12 x 86	cylindrical	methacrylate	X	2.5 / 5	neutral		bag / 1000	case / 5000
<b>BSP062</b>	Ø 12 x 86	cylindrical	polypropylene	X	2.5 / 5	neutral		in bulk	case / 4000
<b>BSP063</b>	Ø 12 x 92	cylindrical	polypropylene	X	2.5 / 5	neutral	X	in bulk	case / 3600
<b>BSP076</b>	Ø 12 x 86	cylindrical	polystyrene	X	2.5 / 5	neutral		in bulk	case / 4000
<b>BSP077</b>	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
<b>BSA0594</b>	6	Ø 13x75	cylindrical	polystyrene	neutral	bag / 1000	case / 4000
<b>BSA0594/P</b>	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
<b>BSP054</b>	Ø 16 x100	cylindrical	methacrylate	X			in bulk	case / 2000
<b>BSP055</b>	Ø 16 x100	cylindrical	methacrylate	X		X	in bulk	case / 2000
<b>BSP048</b>	Ø 16 x100	cylindrical	polypropylene	X			in bulk	case / 2000
<b>BSP049</b>	Ø 16 x100	cylindrical	polypropylene	X		X	in bulk	case / 2000
<b>BSP058</b>	Ø 16 x100	cylindrical	polypropylene	X	2.5 / 5 / 10		in bulk	case / 2000
<b>BSP059</b>	Ø 16 x100	cylindrical	polypropylene	X	2.5 / 5 / 10	X	in bulk	case / 2000
<b>BSP072</b>	Ø 16 x100	cylindrical	polystyrene	X	2.5 / 5 / 10		in bulk	case / 2000
<b>BSP073</b>	Ø 16 x100	cylindrical	polystyrene	X	2.5 / 5 / 10	X	in bulk	case / 2000
<b>BSP060</b>	Ø 16 x103	conical	polypropylene	X	0.5 / 1 / 2.5 / 5 / 10		in bulk	case / 2000
<b>BSP061</b>	Ø 16 x103	conical	polypropylene	X	0.5 / 1 / 2.5 / 5 / 10	X	in bulk	case / 2000
<b>BSP074</b>	Ø 16 x103	conical	polystyrene	X	0.5 / 1 / 2.5 / 5 / 10		in bulk	case / 2000
<b>BSP075</b>	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: 25x95 or 28.5X95 mm

CAT. NO.	Dimensions (mm)	Bottom	Raw material	Case	Internal packaging	Sale unit
789001	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
<b>Internal Packaging</b>	bag / 1000	bag / 1000
<b>Sale unit</b>	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

### 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

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



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
<b>Sale unit</b>	case / 4000	case / 10000

# TEST TUBES, STOPPERS, RACKS

## 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	17.0	240 x 110	53	White	12

## 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

## RACKS FOR HAEMOLYSIS TUBES

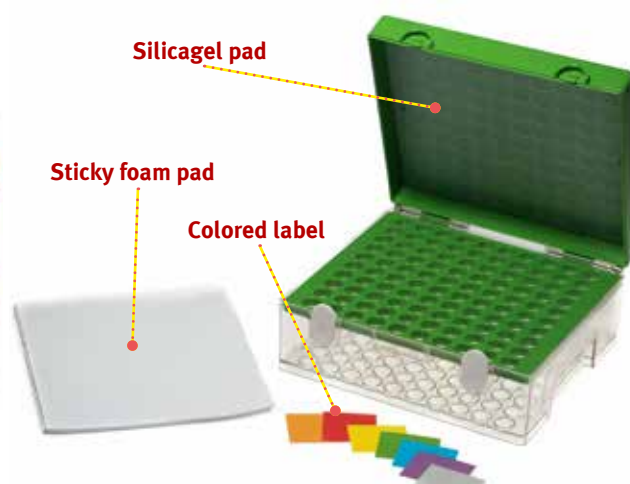
- ▶ Made of polypropylene
- ▶ For tubes of Ø 13, 16, 20, 25 and 30 mm
- ▶ Supplied flat
- ▶ Stackable
- ▶ Marking area on the two lengths
- ▶ Autoclavable
- ▶ Alphanumeric referencing on the tray
- ▶ 4 colours available: white, blue, yellow, red



For Tubes Ø	Tubes number	L x l x h (mm)	white	blue	yellow	red
13 mm	90 (6 x 15)	246 x 105 x 64	391074	391075	391076	391077
16 mm	60 (5 x 12)	246 x 105 x 72	391078	391079	391080	391081
20 mm	40 (4 x 10)	246 x 105 x 72	391082	391083	391084	391085
25 mm	40 (4 x 10)	295 x 125 x 85	391086	391087	391088	391089
30 mm	24 (3 x 8)	300 x 112 x 85	391090	391091	391092	391093
Sale unit			1	1	1	1

## CRYOGENIC STORAGE BOXES FOR VACUUM TUBES

- ▶ To meet the demand of lab safety and ISO 15189 standard, We now launch the cryogenic storage box for vacuum tubes after analyzed, It makes the work for blood specimen aftertreatment faster, easier, and safer. It's the ideal choice for laboratory safety and quality control
- ▶ According to different sealing method, it can be divided into three types: Silicagel pad, Sticky foam pad and no pad with the tube cap on
- ▶ For different clinical department, Testing items and date, We prepared 6 different colors for each of the three kinds of box: Red, Orange, Yellow, Green, Blue and Purple
- ▶ According to the tube size, each of the three types can match with tubes of two specifications: Ø13x75mm and Ø13x100mm
- ▶ To avoid any inconvenience caused by unnormal label (like multi-layer label, turnup label or corrugated label) or non-standard bigger diameter tube



1. Press down the cover slightly, the box will automatically lock and seal, one light press on the
2. Detachable design allows it to be used as a test tube rack.
3. Moulded code no of 1-100, convenient for locating the samples.
4. Multi-color label, Easy to write related information and put on the box.
5. Hidden handle design, brief and delicate.
6. Particular locating slot design makes boxes stack available without moving or sliding.
7. Convenient to put or take out tubes with unnormal label (like multi-layer label, turnup label or corrugated label, or tubes with big diameter less than Ø14mm).

CAT. NO.	Description	Sale unit
BSP278	CryoGenic storage box for 13x75 mm Vacuum Tubes, 100 places, sticky foam pad, 6 colours available	6
BSP277	CryoGenic storage box for 13x100 mm Vacuum Tubes, 100 places, sticky foam pad, 6 colours available	6



## 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. 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 clamps



### 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
<b>BSD680</b>	Test in card + Bottle with buffer solution for dilution of stool sample.	feces	50 ng/ml	25



The Transferrin/FOB Combo Rapid Test Cassette is a rapid chromatographic immunoassay (non-invasive assay) for the qualitative detection of human hemoglobin and transferrin in human feces specimens, which might be useful for the diagnosis of bleeding gastrointestinal disorders. Detection of fecal transferrin, which is more stable in stool than hemoglobin, provides an alternative way of diagnosing the disease in the upper digestive tract.

### Fecal occult blood device and transferrin

CAT. NO.	Description	Sample	Sensitivity	Sale unit
<b>BSD933</b>	FOB + Transferrin Combo rapid test cassette	feces	FOB 50 ng/ml TRASF 40 ng/ml	25



## CALPROTECTIN

- ▶ For professional in vitro diagnostic use only
- ▶ CE marked



### CALPROTECTIN

CAT. NO.	Description	Sample	Sale unit
<b>BSD920</b>	Rapid test for the determination of fecal calprotectin	feces	10

## PSA-CHECK-1

The PSA-CHECK-1 test is a rapid qualitative assay for the detection of Human PSA (free form or complexed with  $\alpha$ -1-antichymotrypsin) in plasma, serum or whole blood. *This test is designed for in vitro diagnostic use only.*



### PSA

CAT. NO.	Infectious agent	Sample	Features	Sale unit
<b>BSD650</b>	Prostate specific antigen	Serum, Plasma, whole blood	PSA: Immunochromatographic rapid test for the semi-quantitative detection of prostate specific antigen	20

# RAPID TESTS

## 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.*

### hCG test in card

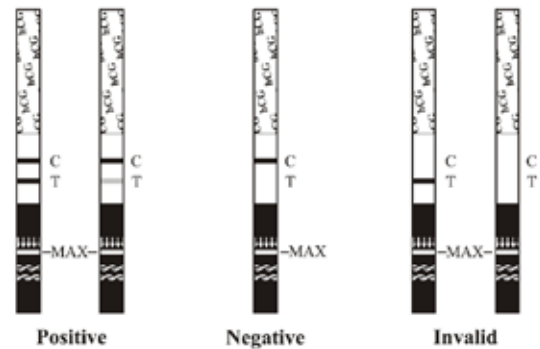
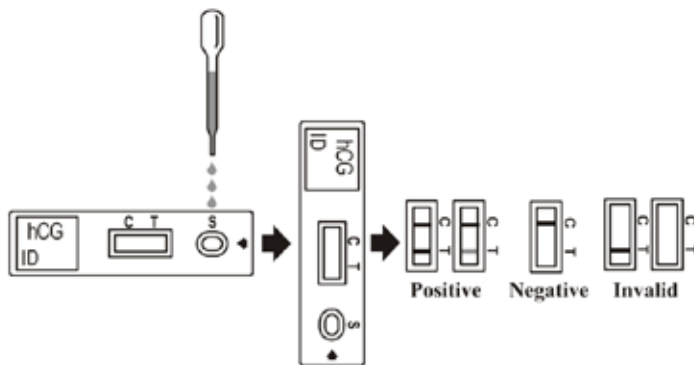


Card

### Hcg test in strip



Strip



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

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

## Cardiac marker rapid test

### Cardiac marker rapid test, CE Marked

CAT. NO.	Sample	Description	Sale unit
<b>BSD937</b>	Whole blood Serum Plasma	H-Fabp Rapid test cassette. Cut-off 8ng/ml	10
<b>BSD938</b>	Whole blood Serum Plasma	H-Fabp + cTnI Combo Test cassette. Cut-off Hfabp 8ng/ml + Troponin 0.5ng/ml	10



BSD937

BSD938

# RAPID TESTS

## 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 Methylenedioxyamfetamin	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



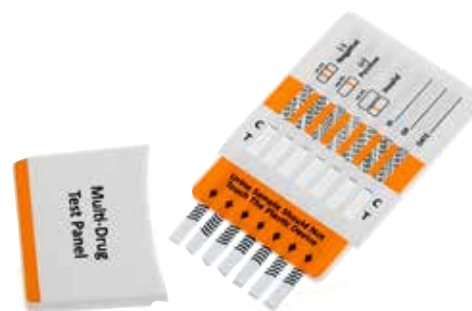
### Multi-drug test

#### Urine

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



BSD711/BSD714/BSD716



BSD770

#### Urine immersion

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

#### Saliva

CAT. NO.	Par. no.	Drug	Cut-off ng/ml	Sale unit	
BSD931	6	OPI	Opium	40	25
		COC	Cocaine	30	
		AMP+ALCOHOL	Amphetamine + Alcohol	40	
		MET	Methamphetamine	40	
		MDMA	Methylenedioxyamfetamin	50	
		THC	Marijuana	25	



BSD931

## INFECTIOUS DISEASES

Immuno-chromatographic 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
<b>BSD585</b>	DUO ROTA-ADENOVIRUS	Feaces	for the qualitative feaces detection of DUO ROTA-ADENOVIRUS antigen	20
<b>BSD586</b>	ADENOVIRUS	Feaces	for the qualitative feaces detection of ADENOVIRUS antigen	20
<b>BSD587</b>	ROTAVIRUS	Feaces	for the qualitative feaces detection of ROTA VIRUS antigen	20
<b>BSD613</b>	MONONUCLEOSIS	Serum, Plasma, whole blood	Immuno-chromatographic rapid test for the detection of infectious Mononucleosis antibodies	20



BSD585

### Bacteria

CAT. NO.	Infectious agent	Sample	Features	Sale unit
<b>BSD594</b>	TUBERCULOSIS	Serum, Plasma, whole blood	for the detection of human antibodies (IgA, IgG, IgM) to Koch's bacillus	20
<b>BSD598</b>	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
<b>BSD599</b>	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
<b>BSD600</b>	CHLAMYDIA	Female: cervical swab Male: Urethral swab, urine	for the detection of CHLAMYDIA trachomatis	20
<b>BSD630</b>	H-PYLORI	Serum, Plasma	Immuno-chromatographic rapid test for the detection of H-PYLORI antibodies	40
<b>BSD632</b>	H-PYLORI	Feaces	for the qualitative feaces detection of H-PYLORI	20
<b>BSD712</b>	SYPHILIS	Serum, Plasma	for the detection of antibodies (IgG and IgM) to Treponema pallidum (SYPHILIS)	40
<b>BSD715</b>	STREPTOCOCCUS A	Pharyngeal swab	for the qualitative detection of Strep A antigen. Kit with positive and negative controls	20



BSD613



BSD598

# 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 : Bailenger-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
<b>BSD855/E</b>	Biorepair, system parassit fecal	Feaces	50

For the qualitative research of Giardia cysts, a kit contains: 25 strips and a 15 ml vial containing pH 7.5 buffered solution. Store at 4-37°C

### Giardia

CAT. NO.	Description	Sample	Sale unit
<b>BSD890</b>	25 strips and a 15 ml vial containing pH 7.5 buffered solution.	Feaces	25
<b>BSD891</b>	Positive control for Giardia 1x2ml	Feaces	1



## 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
<b>BSD7495G</b>	LEUC	Leukocytes
	NIT	Nitrites
	UR	Urobilinogen
	PR	Proteins
	PH	PH
	BLOOD	BLOOD
	SG	Specific Gravity
	KET	Ketones
	BIL	Bilirium
	BLU	Glucose
		100



## CONSUMABLES

### Plastic cassette for rapid tests

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



### Pipette pasteur for card test

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



## 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, Single packed	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	in bulk	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	in bulk	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, Single packed	Graduated	Frosted Side	Raw material	Internal packaging	Sale unit
BSC128	red	30	screw	whit paddle	28.0	82.5		X	X	PP	in bulk	case / 700
BSC132	red	30	screw	whit 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	single packed	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, Single packed	Raw material	Internal packaging	Sale unit
BSC105	white	30	pressure (aside)	-	33.5	39.5		PS	in bulk	case / 800
BSC146	blue	60	pressure	-	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



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



### 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 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



### 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



### 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>*

## TRANSPORT LINE FOR BIOLOGICAL SAMPLES

### 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

### 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

### 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

### 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

### 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

### 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

### 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

## TRANSPORT LINE FOR CHEMOTHERAPEUTICS SAMPLES

### Transport bags for chemotherapeutics samples, suitable for secondary container 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



### 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



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

CAT. NO.	Capacity	Dimensions (cm)	Sale unit
BS472041/C	Transport Container (CTP) for 78 tubes	310 x 155 x 180	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

## TERTIARY CONTAINERS FOR BLOOD COMPONENTS

### 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 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



## 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	16

### 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



CAT. NO.	Colour	Dimensions (cm)	Internal packaging	Sale unit
BSA2401	transparent	16 x 16 x 23h	20	1000
BSA2101	yellow	16 x 16 x 23h	20	1000
BSA2201	green	16 x 16 x 23h	20	1000
BSA2301	light blue	16 x 16 x 23h	20	1000
BSA2461	red	16 x 16 x 23h	20	1000
BSA2601	orange	16 x 16 x 23h	20	1000
BSA2701	pink	16 x 16 x 23h	20	1000
BSA2801	violet	16 x 16 x 23h	20	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>

### 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

### GEN-X Nitrile gloves

- ▶ Ambidextrous
- ▶ Colours blue violet
- ▶ Powder free
- ▶ Length 240 mm
- ▶ In compliance with EN455
- ▶ Nitrile gloves, textured fingertips



CAT. NO.	Description	Size	Sale unit
603501	GEN-X nitrile gloves	XS	100
603502	GEN-X nitrile gloves	S	100
603503	GEN-X nitrile gloves	M	100
603504	GEN-X nitrile gloves	L	100
603505	GEN-X nitrile gloves	XL	100

## NITRILE GLOVES

- ▶ Nitrile gloves without powder not sterile
- ▶ MD class 1 in compliance with 93/42/EEC
- ▶ PPE III Cat. in compliance with 89/686/EEC
- ▶ Case 200 pcs, carton 2000 pcs. (10x200)



CAT. NO.	Size	Internal packaging	Sale unit
BSI080	XS	200	2000
BSI081	S	200	2000
BSI082	M	200	2000
BSI083	L	200	2000
BSI084	XL	200	2000

## LATEX GLOVES

Medical Device Class I non-sterile, CE mark, in compliance with Directive 93/42/EEC. AQL 1.5/G.1. Non-sterile glove, natural latex of high quality ("high grade" in accordance with the ISO2004 standard) white latex, lightly lubricated with powdered corn starch USP, FDA approved. Non-sterile glove, natural latex of high quality ("high grade" in accordance with the ISO2004 standard), natural color, powder free



CAT. NO.	Size	Powdered	Internal packaging	Sale unit
BSI009	XS	X	100	1000
BSI010	S	X	100	1000
BSI011	M	X	100	1000
BSI012	L	X	100	1000
BSI013	XL	X	100	1000
BSI030	S		100	1000
BSI031	M		100	1000
BSI032	L		100	1000
BSI033	XL		95	950

## 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 polyefine 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				IMPERVIUS MODEL				Sale unit
	SMALL (S)	MEDIUM (M)	LARGE (L)	EXTRA LARGE (XL)	SMALL (S)	MEDIUM (M)	LARGE (L)	EXTRA LARGE (XL)	
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

- ▶ For use of material stored in liquid nitrogen or at low temperatures
- ▶ Very good insulation, thinner gloves offering excellent dexterity

### 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

- ▶ Synthetic fibre for improved flexibility
- ▶ Water resistant
- ▶ Coating "waterproof"
- ▶ With suspension ring
- ▶ EC marking





## GINECOLOGY AND FERTILITY

*For more details please visit:*

*<http://www.biosigma.com/ginecology-and-fertility.html>*

## SEMEN COLLECTION

The KIT FOR FERTILITY is a disposable devices used for the collection of sputum 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 CITOLGY

Kito-Fix Spray for citology



CAT. NO.	Description	Sale unit
BSI109	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	120
BSM241	Medium	single packed	120
BSM242	Large	single packed	120

## 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	500
BSM016	wood	180	X	Single packed	4000

## 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

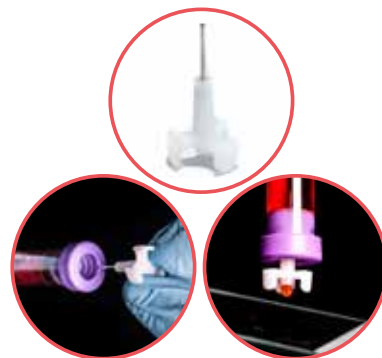


#### TYPESAFE™ in PVC segment sampling device

CAT. NO.	Color	Internal packaging	Sale unit
BSA038TX	green	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	L 17.30 H 4.50	12	case / 400
BSA037	L 17.30 H 4.50	10	case / 250

## SYRINGES FOR BLOOD COLLECTION



### Sterile syringe

CAT. NO.	Features	Capacity (ml)	Needle (G)	Internal packaging	Sale unit
BSS133	for insuline	1	26	100	100
BSS134	for insuline	2	22	100	100
BSS140	eccentric cone	5	21	100	100
BSS141	eccentric cone	10	21	100	100
BSS130	eccentric cone	20	-	50	50
BSS131	eccentric cone	50-60	-	30	30

## STERILE NEEDLE



### Hypodermic sterile needle

CAT. NO.	Description	Color	Internal packaging	Sale unit
BSS230	18 GA x 1 1/2	pink	100	2000
BSS231	19 GA x 1 1/2	brown	100	2000
BSS232	20 GA x 1 1/2	yellow	100	2000
BSS233	21 GA x 1 1/2	green	100	2000
BSS234	22 GA x 1 1/2	black	100	2000
BSS235	23 GA x 1 1/4	light blue	100	2000
BSS236	25 GA x 3/8	blue	100	2000
BSS237	26 GA x 1/2	beige	100	2000
BSS238	27 GA x 3/4	grey	100	2000

## BUTTERFLY NEEDLE

- ▶ Tube lenght 30 cm
- ▶ Sterile
- ▶ Pyrogen free,
- ▶ Latex free
- ▶ Individually wrapped

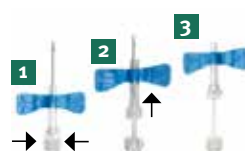


### Sterile butterfly needle

CAT. NO.	Needle (G)	Color	Sale unit
BSS250	21	green	100
BSS251	23	light blue	100
BSS252	25	orange	100

## SAFE TOUCH BUTTERFLY NEEDLE

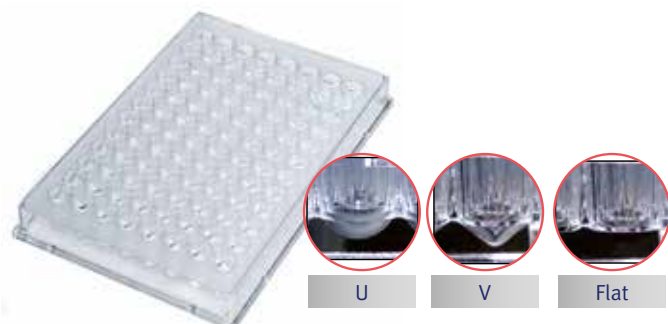
- ▶ Latex free
- ▶ With security device
- ▶ Sterile
- ▶ Individually wrapped



### Safe Touch sterile butterfly needle

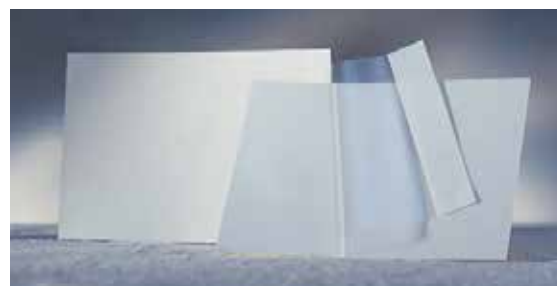
CAT. NO.	Needle (G)	Tube lenght	Color	Sale unit
BV100	19G x 3/4" (19mm)	300 mm	beige	50
BV101	21G x 3/4" (19mm)	300 mm	green	50
BV102	22G x 3/4" (19mm)	300 mm	black	50
BV103	23G x 3/4" (19mm)	300 mm	blue	50
BV104	25G x 3/4" (19mm)	300 mm	orange	50

## 96-WELL MICROTITER PLATES IN POLYSTYRENE



### Microtiter plate

CAT. NO.	CAT. NO. STERILE	Bottom	Wells	Sale unit
BSD001	BSD010	U	96	case / 50
BSD002	BSD011	V	96	case / 50
BSD003	BSD012	flat	96	case / 50
BSD013		Cover for microtiter plate		case / 50



### Plate adhesive film

CAT. NO.	Dimensions (mm)	Material	Sale unit
106571	131 x 81.3	Polyethylene	case / 100
106570	131 x 81.3	Aluminium	case / 100

## TOURNIQUETS

- ▶ Medical device Class I
- ▶ Not sterile
- ▶ Internal diameter: mm 6±5%
- ▶ External diameter: mm 8±5%
- ▶ Ce marked



CAT. NO.	Description	Color	Dimensions (mm)	Sale unit
ABS022	Round tourniquet in natural latex with flanges at the ends	yellow	350 ± 5%	100



## INSTRUMENTS

*For more details please visit:  
<http://www.biosigma.com/instruments.html>*



## MICROCENTRIFUGE

### Palm Micro Centrifuge

#### Features

- ▶ Ideal for microfiltration and quick spin-downs
- ▶ Easy-to-use with dual start/stop function
- ▶ 7000rpm fixed speed
- ▶ Compatible with 2mL x 8 and PCR8 x 2 rotors
- ▶ Quiet running, noise level  $\leq 45$  dB
- ▶ Rotor change without tools
- ▶ Accelerates and brakes in seconds
- ▶ Four colors available, green, blue, yellow and pink, add color to your routine laboratory life



CAT. NO.	Description	Sale unit
861056	Micro centrifuge tubes D1008 0.2, 0.5, 1.5 and 2 ml, green lid	1
861057	Micro centrifuge tubes D1008 0.2, 0.5, 1.5 and 2 ml, pink lid	1
861058	Micro centrifuge tubes D1008 0.2, 0.5, 1.5 and 2 ml, yellow lid	1
531501	Micro centrifuge tubes D1008 0.2, 0.5, 1.5 and 2 ml, blue lid	1
861059	Ao8-2 rotor capacity 2/1.5 ml x 8, 0.2/0.5 ml x 8	1
861060	Ao2-PCR8 rotor 0.2 ml x16 PCR strips, 0.2 ml x 2 PCR 8 strips	1
861061	SA02P2 0.2 ml rotor adapter, used with 861059	8
861062	SA05P2 0.5 ml rotor adapter, used with 861059	8

#### Specifications

Max. Speed	7000rpm
Max. RCF	2680xg
Rotor	0.2/0.5/1.5/2.0mLx8;
Capacity	0.2mLx16 PCR strips or 0.2mLx2 PCR 8 strips
Run Time	Continuous operation
Driving	DC motor
Motor	
Power	AC110-240V/50Hz/60Hz
Noise level	$\leq 45$ dB
Dimensions [DxWxH]	160 x 170 x 122mm
Weight	0.5kg
Certification	CE cTUVus FCC MCA

## MIXERS VORTEX AND ACCESSORIES

### Mixers Vortex

Vortex Mixers are ideal instruments for mixing to vigorous resuspension of cells, biological and chemical liquid components in tubes using an eccentric mechanism. They are widely used in life science, physical and chemical analysis fields.

#### Features

- ▶ Touch operation or continuous mode
- ▶ Variable speed control from 0 to 2500rpm
- ▶ Used for various mixing applications with optional adapters
- ▶ Specially designed vacuum suction feet for body stable
- ▶ Robust aluminum-cast construction



CAT. NO.	Description	Sale unit
ABS451	Vortex Mixer MX-S	1
ABS452	VT1.2 Tube holding rod, used with tube adapters	1
ABS453	VT1.3 Universal top plate, $\varnothing$ 100mm	1
ABS454	VT1.3.1 tube adapter, for 48 holes test tubes, $\varnothing$ 6mm	1
ABS455	VT1.3.2 tube adapter, for 15 holes test tubes, $\varnothing$ 10mm	1
ABS456	VT1.3.3 tube adapter, for 12 holes test tubes, $\varnothing$ 12mm	1
ABS457	VT1.3.4 tube adapter, for 8 holes test tubes, $\varnothing$ 16mm	1
ABS458	VT1.3.5 tube adapter, for 8 holes test tubes, $\varnothing$ 20mm	1
ABS459	VT1.3.6 Platform pad, for $<\varnothing$ 99mm tubes and small vessels	1

#### Specifications

Voltage	110-120V/220-230V,50/60Hz
Power	60W
Mixing motion	Orbital
Orbital diameter	4mm
Motor type	Shaded pole motor
Motor rating input	58W
Motor rating output	10W
Speed range	0-2500rpm
Speed display	Scale
Run type	Touch operation/Continuous
Dimensions[WxHxD]	127x130x160mm
Weight	3.5kg
Permissible ambient temperature	5-40°C
Permissible relative humidity	80%
Protection class	IP21

## STIRRERS AND ACCESSORIES

### Magnetic stirrer

EcoStir is a magnetic stirrer customized for liquid mixing, suitable for chemical analysis, biology reagent mixing, regular laboratory experiments and liquid handling.

#### Features

- ▶ Maintenance free brushless DC motor
- ▶ Rare earth magnets give powerful stirring
- ▶ Stepless speed regulation 300-2000rpm
- ▶ Ultra silence and vibration-free design.
- ▶ PET top provides excellent chemical resistance
- ▶ Shaft can be fitted with a PH sensor or sensors for other purposes



CAT. NO.	Description	Sale unit
ABS476	Economical magnetic stirrer EcoStir	1

Specifications	
Work plate dimensions	Ø 120mm
Work plate materials	PET
Motor type	Brushless DC motor
Motor output power	1.2W
Power	7.2W
Voltage	100-120/200-240V,50/60Hz
Stirring positions	1
Max. stirring quantity[H <sub>2</sub> O]	1.5L
Max. magnetic bar[length]	40mm
Speed range	300-2000rpm
Speed setting	scale
Protection class	IP21
Dimension [W x D x H]	150x145x50mm
Weight	0.3kg
Permissible ambient temperature and humidity	5-40°C,80%

### Microplate Mixers

Capable of holding single or double microplates, the compact shape of MX-M Microplate Mixer takes less bench space and makes storage easier.

It is widely used in life sciences including microbiology, cell and molecular biology, immunology and biotechnology.

#### Features

- ▶ A wide range of speed from 0 to 1500rpm
- ▶ Used for various mixing applications with optional adapters
- ▶ Maintenance-free brushless DC motor



CAT. NO.	Description	Sale unit
861013	Microplate Mixers MX-M	1
ABS524	Double microplates clams MXM-116	1

Specifications	
Shaking movement	Orbital
Orbital diameter	4.5mm
Max. shaking weight (with accessory)	0.5kg
Motor type	Brushless DC motor
Motor rating input	18W
Motor rating output	10W
Speed range	Single microplate: 0-1500rpm Double microplate : 0-1000rpm
Speed display	Scale
Voltage	100-240V,50/60Hz
Power	20W
Dimensions	260x150x80mm
Weight	3kg
Permissible ambient temperature and humidity	5~40°C,80%
Protection class	IP21

## STIRRERS AND ACCESSORIES

### Magnetic Stirrers

#### Features

- ▶ Maintenance free brushless DC motor
- ▶ Speed range of 0-1500 rpm
- ▶ Max. stirring quantity of H<sub>2</sub>O at 20L
- ▶ Stainless steel work plate cover with ceramic material provides good chemical resistance performance



861007B

CAT. NO.	Description	Sale unit
861007B	Classic magnetic stirrer, MS-S version, stainless still plates with ceramic coated	1

Specifications	
Work plate dimensions	Ø 135(5 inch)mm
Work plate material	Stainless steel cover with ceramic
Motor type	Brushless DC motor
Motor input power	18W
Motor output power	10W
Power	30W
Voltage	100-120/200-240V,50/60Hz
Stirring positions	1
Max. stirring quantity[H <sub>2</sub> O]	20L
Max. magnetic bar[length]	80 mm
Speed range	0-1500 rpm
Speed display	Scale
Protection class	IP42
Dimension [W x D x H]	160x280x85 mm
Weight	2.8kg
Permissible ambient temperature and humidity	5-40°C,80%

### Roller mixer

The tube rollers provide a gentle and highly efficient rolling motions, ideal for mixing blood samples, viscous substances and liquid-solid suspensions. Used in a variety of applications, such as the prevention of blood coagulation and immune precipitation, etc.

#### Features

- ▶ LCD displays the speed and time
- ▶ Speed range of 10-70rpm
- ▶ Six roller design for gentle rolling and easy to clean
- ▶ Continuous or timer operation



ABS484

CAT. NO.	Description	Sale unit
ABS484	Roller mixer, MX-T6-Pro	1

Specifications	
Amplitude	24 mm
Motor type	DC motor
Rocking motion	Rocking and rolling
Amplitude	24 mm
Max. load capacity	4 kg
Number of rollers	6
Roller size [length]	280 mm
Speed range	10 -70 rpm
Speed display	LCD
Timer	Yes
Timer display	LCD
Time setting range	1-1199min
Operation mode	Continuous / timed
Voltage	100-240V,50/60Hz
Power	30W
Dimensions [DxWxH]	450x260x120mm
Weight	5.1 kg
Permissible ambient temperature and humidity	5-40°C,80%
Protection class	IP21

## SHAKERS

The orbital and linear shakers are ideal for almost any vessel from microcentrifuge tubes through petri dishes and microtitre plates to conical flasks.

### Features 861019

- ▶ Max. load capacity is 7.5kg (861019) with platform
- ▶ Double LCDs for independent display of time and speed
- ▶ Used with a wide variety of accessories
- ▶ Maintenance- free brushless DC motor
- ▶ Over speed detection and protection
- ▶ Remote function provide PC control and data transmission

### Features ABS485 - ABS486

- ▶ Max. load capacity is 3kg with platform
- ▶ Double LEDs for independent display of time and speed
- ▶ Speed range of 40-200 rpm
- ▶ A wide range of platforms, accessories



CAT. NO.	Description	Sale unit
861019	Digital orbital shaker, LED SK-O330-PRO	1
ABS485	Digital orbital shaker, LED SK-O180-S	1
ABS486	LED Digital Linear Shaker SK-L180-S	1

### Specifications

Model	861019	ABS485
Orbital diameter	10mm	20mm
Max. load capacity (with platform)	7.5kg	3kg
Motor type	Brushless DC motor	DC motor
Motor input power	28W	16W
Motor output power	15W	10W
Speed range	100-500rpm	40-200rpm
Speed display	LCD	LED
Timer display	LCD	LED
Time settings range	1min-19h59min	1min-19h59min
Voltage	100-240V,50/60Hz	100-240V,50/60Hz
Power	30W	20W
Weight	13.5kg	3.1kg
Permissible ambient temperature and humidity	5-40°C, 80%	5-40°C, 80%
Dimensions[WxDxH]	370x420x100mm	270x330x110mm
Protection class	IP21	IP21
Data connector	RS232	-

### Specifications

Model	ABS486
Amplitude	20mm
Max. load capacity (with platform)	3kg
Motor type	DC motor
Motor input power	16W
Motor output power	10W
Speed range	40-200rpm
Speed display	LED
Timer display	LED
Time settings range	1min-19h59min
Voltage	100-240V,50/60Hz
Power	20W
Weight	3.1kg
Permissible ambient temperature and humidity	5-40°C, 80%
Dimensions[WxDxH]	270x330x110mm
Protection class	IP21
Data connector	-

The rocking and 3D shakers provide perfect solution in wide fields including electrophoresis gel dyeing/dicoloration, sample washing, molecular hybridization, immunoprecipitation, Western blot and cell culture.

### Features ABS487

- ▶ Rocking motion angle 7°
- ▶ Max. load capacity is 3kg with platform
- ▶ Speed range of 10-80 rpm
- ▶ Double LEDs for independent display time and speed
- ▶ Various of platforms, accessories



ABS487

CAT. NO.	Description	Sale unit
ABS487	LED Digital Rocking Shaker SK-R1807-S	1

### Specifications

Tilt angle	7°
Max. load capacity (with platform)	3kg
Motor type	DC motor
Motor input power	16W
Motor output power	10W
Speed range	10-80 rpm
Speed display	LED
Timer display	LED
Time settings range	1min-19h59min
Voltage	100-240V,50/60Hz
Power	20W
Weight	3.2kg
Permissible ambient temperature and humidity	5-40°C, 80%
Dimensions[WxDxH]	270x330x130mm
Protection class	IP21
Data connector	-

### Features ABS488

- ▶ Three-dimensional rocking motion with the angle of 7°
- ▶ Max. load capacity is 3kg with platform
- ▶ Speed range of 10-80rpm
- ▶ Double LCDs for independent display time and speed
- ▶ Various of platforms accessories



Three-dimensional

ABS488

CAT. NO.	Description	Sale unit
ABS488	LED Digital 3D shaker SK-D1807-S	1

### Specifications

Tilt angle	7°
Max. load capacity (with platform)	3kg
Motor type	DC motor
Motor input power	16W
Motor output power	10W
Speed range	10-80rpm
Speed display	LED
Timer display	LED
Time settings range	1min-19h59min
Voltage	100-240V,50/60Hz
Power	20W
Weight	2.7 kg
Permissible ambient temperature and humidity	5-40°C, 80%
Dimensions[WxDxH]	270x330x130mm
Protection class	IP21
Data connector	-

## Shaker accessories



CAT. NO.	Description	Suitable for: 861019	Suitable for: ABS485 ABS486 ABS487 ABS488	Sale unit
861024	Dish platform with non-slip mat and fixed string, dim. 30x28.5 cm	X		8
ABS489	Dish attachment with non-slip mat, dim. 24x21.5 cm		X	1
ABS490	Large size dish attachment with non-slip mat		X	1
ABS491	Universal attachment with 4 bars, dim. 30x30 cm	X		1
861022	Lengthways roller attachment, dim. 30x30 cm	X		1
ABS492	Universal attachment with 3 bars dim. 24x24 cm		X	1
ABS493	Lengthways roller attachment, dim. 24x24 cm		X	1
ABS494	Bar for ABS491 universal attachment	X		1
ABS495	Bar for ABS492 universal attachment		X	1
861023	Fixing clip attachment for 861019	X		1
ABS496	Fixing clip attachment for ABS485/486/487/488		X	1
ABS497	Fixing clip for flask volume 25 ml, used with 861023, ABS496	X	X	1
ABS498	Fixing clip for flask volume 50 ml, used with 861023, ABS496	X	X	1
ABS499	Fixing clip for flask volume 100 ml, used with 861023, ABS496	X	X	1
ABS500	Fixing clip for flask volume 200/250 ml, used with 861023, ABS496	X	X	1
ABS501	Fixing clip for flask volume 500 ml, used with 861023, ABS496	X	X	1

## ROTATORS

The rotators give gentle but effective mixing of biological samples held in 1.5mL to 50mL micro tubes, and are used in a variety of applications including immune precipitations, prevention of blood coagulation, latex diagnostics, etc.

### Features

- ▶ Electronic adjustment of speed and time
- ▶ LCD display speed and time
- ▶ Speed range from 10 to 70rpm
- ▶ Provides gentle but effective rolling
- ▶ A wide variety of accessories are available

### Features

- ▶ Electronic adjustment of speed and time
- ▶ LCD display speed and time
- ▶ Speed range from 10 to 70rpm
- ▶ Rolling action, gives gentle but effective mixing
- ▶ Adjustable mixing angle from 0 to 90°
- ▶ A wide variety of accessories are available



ABS477



ABS502



ABS478



ABS479



ABS480



ABS481



ABS482



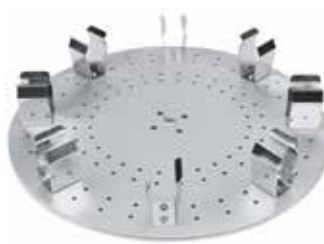
ABS483



ABS503



ABS504



ABS505



ABS506

CAT. NO.	Description	Sale unit
ABS477	LCD digital rotator, MX-RL-Pro	1
ABS478	Rotisserie accessory Type-1, used for MX-RL-Pro, for 1.5mL x 48 centrifuge tubes held horizontally	1
ABS479	Rotisserie accessory Type-2, used for MX-RL-Pro, for 15mL x 24 centrifuge tubes held horizontally	1
ABS480	Rotisserie accessory Type-3, used for MX-RL-Pro, for 50mL x 24 centrifuge tubes held horizontally	1
ABS481	Rotisserie accessory Type-4, used for MX-RL-Pro, for 1.5mL x 32 centrifuge tubes held vertically	1
ABS482	Rotisserie accessory Type-5, used for MX-RL-Pro, for 15mL x 16 centrifuge tubes held vertically	1
ABS483	Rotisserie accessory Type-6, used for MX-RL-Pro, for 50mL x 16 centrifuge tubes held vertically	1

CAT. NO.	Description	Sale unit
ABS502	LCD digital rotator MX-RD-Pro	1
ABS503	Disk accessories Type-1, for 1.5 ml x 60 centrifuge older	1
ABS504	Disk accessories Type-2, for 15 ml x 16 centrifuge older	1
ABS505	Disk accessories Type-3, for 50 ml x 8 centrifuge older	1
ABS506	Disk supports rods, 4 pcs in a group use with disk accessories	1

### Specifications

Motor type	DC motor
Speed range	10-70 rpm
Speed display	LCD
Timer display	LCD
Timer	1-1199 min
Operation mode	Continuous / timer
Voltage	100-240V, 50/60Hz
Power	40W
Dimensions [DxWxH]	220x510x260mm
Permissible ambient temperature and humidity	5~40°C, 80%
Protection class	IP21

### Specifications

Motor type	DC motor
Tilt angle	0-90°
Speed range	10-70 rpm
Speed display	LCD
Timer display	LCD
Timer	1-1199 min
Operation mode	Continuous / timer
Voltage	100-240V, 50/60Hz
Power	40W
Dimensions [DxWxH]	280x210x300mm
Permissible ambient temperature and humidity	5~40°C, 80%
Protection class	IP21

## MAGNETIC HOTPLATE STIRRERS

### 10-Position Magnetic Hotplate Stirrer

#### Features

- ▶ Maintenance-free brushless DC motor
- ▶ Max speed 1100rpm
- ▶ Max. temperature 120°C
- ▶ Stainless steel work plate, cover with silicone cushion, provides the excellent performance of heating uniformity and skid resistance



861012

### LED Digital Magnetic Hotplate Stirrer

ABS475, MS-H280-Pro is a perfect device for handling small volume task on daily application, as a low temperature magnetic stirrer with Max. temperature at 280°C.

#### Features

- ▶ Digital temperature control with Max. temperature to 280°C
- ▶ Digital speed control with Max. speed up to 1500rpm
- ▶ Stainless steel work plate with ceramic coating provides good chemical-resistant performance
- ▶ External temperature control is possible by connecting the temperature sensor (PT 1000) with an accuracy at  $\pm 0.5^{\circ}\text{C}$
- ▶ LED display shows temperature and speed
- ▶ The "HOT" warning will flash when the work plate temperature is above 50°C even if the hotplate is turned off



ABS475

CAT. NO.	Description	Sale unit
861012	10-Position Magnetic Hotplate Stirrer, MS-H-S10	1

CAT. NO.	Description	Sale unit
ABS475	LED Digital Magnetic Hotplate Stirrer, MS-H280-Pro	1

#### Specifications

Work plate dimensions [W x D]	180x450mm
Work plate material	Stainless steel with silicone
Motor type	Brushless DC motor
Motor rating input	12W
Motor rating output	4W
Power	490W
Heating output	470W
Voltage	100-120/200-240V 50/60Hz
Stirring positions	10
Max. stirring quantity	0.4L x 10
Max. magnetic bar[length]	40mm
Speed range	0-1100rpm
Speed display	scale
Temperature display	scale
Heating temperature range	Room temp. ~120°C
Overheating protection	140°C
Protection class	IP42
Dimension [W x D x H]	182x622x65mm
Weight	3.2kg
Permissible ambient temperature and humidity	5-40°C 80%

#### Specifications

Work plate dimensions	Ø 135mm(5 inch)
Work plate material	Stainless steel cover with ceramic
Motor type	DC motor
Motor rating input	5W
Motor rating output	3W
Power	515W
Heating output	500W
Voltage	100-120/200-240V 50/60Hz
Stirring positions	1
Max. stirring quantity	3L
Max. magnetic bar[length]	50mm
Speed range	100-1500rpm
Speed display	LED
Temperature display	LED
Speed display resolution	$\pm 1\text{rpm}$
Heating temperature range	Room temp. -280, increment 1°C
Control accuracy of work plate	$\pm 1^{\circ}\text{C} (<100^{\circ}\text{C}) \pm 1\% (>100^{\circ}\text{C})$
Overheating protection	320°C
Temperature display accuracy	$\pm 1^{\circ}\text{C}$
External temperature sensor	PT1000 (accuracy $\pm 0.5^{\circ}\text{C}$ )
"Hot" warning	50°C
Protection class	IP21
Dimension [W x D x H]	150x260x80mm
Weight	1.8kg
Permissible ambient temperature and humidity	5-40°C 80%

## Magnetic Hotplate Stirrer

The 340°C magnetic hotplate stirrers include all leading safety standards and features for superior easy of use and cost-effective. They are widely used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals, etc.

### LCD Digital Magnetic Hotplate Stirrer

#### Features

- ▶ Brushless DC motor is maintenance free and explosion-proof
- ▶ Digital temperature control with Max. temperature at 340°C
- ▶ Digital speed control with Max. speed up to 1500rpm
- ▶ Max. stirring quantity of H<sub>2</sub>O at 20L
- ▶ Safety circuits provide overheating protection
- ▶ The "HOT" warning will flash when the plate temperature is above 50°C even the hotplate is turned off
- ▶ The high-resolution LCD display shows actual temperatures and speed
- ▶ External temperature control is possible by connecting the temperature sensor(PT 1000) with accuracy at ±0.2°C
- ▶ Stainless steel work plate with ceramic coating providing good chemical-resistant performance
- ▶ Remote function provide PC control and data transmission
- ▶ A wide variety of accessories are available



861010B

### Magnetic Hotplate Stirrer

#### Features

- ▶ Maintenance free brushless DC motor
- ▶ Temperature to 340°C
- ▶ Stirring speed up to 1500 rpm
- ▶ Stainless steel work plate with ceramic coating provides good chemical-resistant performance
- ▶ Safety circuits provide overheating protection
- ▶ A wide variety of accessories are available



861049

CAT. NO.	Description	Sale unit
861010B	LCD Digital Magnetic Hotplate Stirrer, MS-H-Pro+	1
861049	Magnetic Hotplate Stirrer, MS-H-S	1

Specifications	861010B	861049
Model	861010B	861049
Work plate dimensions	Ø135mm(5 inch)	Ø135mm(5 inch)
Work plate material	stainless steel cover with ceramic	stainless steel cover with ceramic
Motor type	Brushless DC motor	Brushless DC motor
Motor rating input	18W	18W
Motor rating output	10W	10W
Power	550W	530W
Heating output	500W	500W
Voltage	100-120/200-240V 50/60Hz	100-120/200-240V 50/60Hz
Stirring positions	1	1
Max. stirring quantity[H <sub>2</sub> O]	20L	20L
Max. magnetic bar[length]	80mm	80mm
Speed range	100-1500rpm resolution±1rpm	0-1500rpm resolution±1rpm
Speed display	LCD	Scale
Temperature display	LCD	Scale
Heating temperature range	Room temp.-340°C, increment 1°C	Room temp.-340°C
Temperature control accuracy	±1°C(<100°C) ±1%(>100°C)	-
Over temperature protection	360°C	350°C
Temperature display accuracy	±0.1°C	±0.5°C
External temperature sensor	PT1000 (accuracy ±0.2)	-
"Hot" warning	50°C	-
Timer function	-	-
Data connector	RS232	-
Protection class	IP42	IP42
Dimension [W x D x H]	160x280x85mm	160x280x85mm
Weight	2.8kg	2.8kg
Permissible ambient temperature and humidity	5-40°C 80%	5-40°C 80%



## Magnetic Hotplate Stirrers

The 550°C series magnetic stirrer is developed for demanding applications. It is widely used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals, to name a few, etc. Combining with glass ceramic work plate, brushless DC motor, external temperature sensor and the work plate temperature optimized up to 550°C.



ABS450

### Features

- ▶ LCD display for precise monitoring of speed and temperature
- ▶ Built-in PID controller ensures the safe heating of the medium with overheating protection
- ▶ Max. Heating plate temperature 550°C
- ▶ Glass ceramic work plate provides excellent chemical resistant performance and most efficient heat transfer
- ▶ External temperature control is possible by connecting the temperature sensor (PT 1000) with an accuracy at  $\pm 0.2^\circ\text{C}$
- ▶ Digital speed controlling, Max. speed at 1500rpm
- ▶ Outstanding brushless DC motor performance enables more stirring power
- ▶ Two rotating knobs enable the easy and direct change of speed and temperature
- ▶ The "HOT" warning will flash when the work plate temperature is above 50°C even if the hotplate is turned off
- ▶ Remote function provides PC control and data transmission

CAT. NO.	Description	Sale unit
ABS450	LCD Digital Magnetic Hotplate Stirrer, MS7-H550-Pro	1

### Specifications

Work plate dimensions [W x D]	184x184mm (7 inch)
Work plate material	Glass ceramic
Motor type	Brushless DC motor
Motor rating input	18W
Motor rating output	10W
Power	1050W
Heating output	1000W
Voltage	100-120/200-240V 50/60Hz
Stirring positions	1
Max. stirring quantity, [H <sub>2</sub> O]	20L
Max. magnetic bar [length]	80mm
Speed range	100-1500rpm resolution $\pm 1$ rpm
Speed display	LCD
Temperature display	LCD
Heating temperature range	Room Temp.-550°C, increment 1°C
Temperature control accuracy	$\pm 1^\circ\text{C}$ (<100°C) $\pm 1\%$ (>100°C)
Overheating protection	580°C
Temperature display accuracy	$\pm 0.1^\circ\text{C}$
External temperature sensor	PT1000 (accuracy $\pm 0.2$ )
"Hot" warning	50°C
Data connector	RS232
Protection class	IP21
Dimension [W x D x H]	215x360x112mm
Weight	5.3kg
Permissible ambient temperature and humidity	5-40°C 80%

## Magnetic Hotplate Stirrers, Accessories



ABS520

ABS521

ABS522 - ABS523

ABS519

Accessories		ABS450 MS7-H550- Pro	861010B MS-H-Pro <sup>1</sup>	861049 MS-H-S	ABS475 MS-H280- Pro
CAT. NO.	Description		X	X	X
ABS507	Blue carrying plate, use with color quarter pies		X	X	X
ABS508	Blue Fixed ring, use with color quarter pies		X	X	X
ABS509	Red quarter pie, 11 holes, 4 mL reaction vessel, $\varnothing 15.2$ mm, 20mm depth	X	X	X	X
ABS510	Purple quarter pie, 4 holes, 20 mL reaction vessel, $\varnothing 28$ mm, 24mm depth	X	X	X	X
ABS511	Blue quarter pie, 4 holes, 30mL reaction vessel, $\varnothing 28$ mm, 30mm depth	X	X	X	X
ABS512	Black quarter pie, 4 holes, 40mL reaction vessel, $\varnothing 28$ mm, 43mm depth	X	X	X	X
ABS513	Green quarter pie, 6 holes, 8mL reaction vessel, $\varnothing 17.8$ mm, 26mm depth	X	X	X	X
ABS514	Golden quarter pie, 4 holes, 16mL reaction vessel, $\varnothing 21.6$ mm, 31.7mm depth	X	X	X	X
ABS515	Reaction block for 50mL round bottom flask (one flask capacity)		X	X	X
ABS516	Reaction block for 100mL round bottom flask (one flask capacity)		X	X	X
ABS517	Reaction block for 250mL round bottom flask (one flask capacity)		X	X	X
ABS518	Reaction block for 500mL round bottom flask (one flask capacity)		X	X	X
ABS519	F101 protective cover, temperature resistance of 135°C		X	X	X
ABS520	PT1000-A, length of 230mm	X	X		X
ABS521	PT1000-B, temperature sensor with glass coated, length of 230mm	X	X		X
ABS522	Support clamp of PT1000	X	X		
ABS523	Support clamp of PT1000				X

## THERMO MIX AND ACCESSORIES

### Thermo Mix

The Thermo Mix series allow for precise and efficient shaking and mixing, as well as excellent temperature accuracy and uniformity, offering a wide range of applications, such as gene synthesis, gene purification, gene and protein denaturation, enzymatic reaction, bacterial growth, etc.

#### Features

- ▶ Excellent mixing result (ABS464, ABS465)
- ▶ Stable and wide range of speed adjustment (ABS464, ABS465)
- ▶ Precise temperature control for heating and cooling
- ▶ Flexible adapter selection
- ▶ Adapter self-recognition
- ▶ Programmable
- ▶ Compatible with various tubes

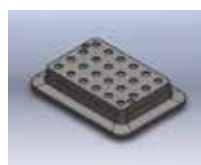


CAT. NO.	Description	Sale unit
ABS464	Thermo Mix, HCM100-Pro	1
ABS465	Thermo Mix without cooling, HM100-Pro	1
ABS466	Dry bath with cooling, HC110-110-Pro	1

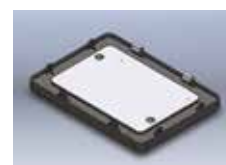
#### Specifications

Model	ABS464	ABS465	ABS466
Functions	Heating, cooling & mixing	Heating&mixing	Heating&cooling
Temperature range	Heating: room temp. ~ 100°C Cooling: room temp. ~ below room temp. 15°C	Heating: room temp. ~ 100 °C	Heating: room temp. ~ 110°C Cooling: room temp. ~ below room temp. 25°C
Temperature control accuracy[@ 20-45°C]	± 0.5°C	± 0.5°C	± 0.5°C
Temperature uniformity[@ 20-45°C]	Max ± 0.5 °C	Max ± 0.5 °C	Max ± 0.5 °C
Max. heating rate	5.5°C/min	5.5°C/min	5.5°C/min
Max. cooling rate	5 °C /min(110°C- room temp.) 0.5 °C/min(below room temp.)	-	2.5°C/min (100°C~room temp.) 0.5°C/min (below room temp.)
Mixing frequency	300-1500rpm	300-1500rpm	-
Mixing orbit	3mm	3mm	-
Screen	TFT	TFT	TFT
Program step	6	6	6
Overheating protection	150°C	150°C	150°C
Adapter block material	aluminum	aluminum	aluminum
Voltage, Frequency	100-240V,50/60Hz	100-240V,50/60Hz	100-240V,50/60Hz
Power	200W	200W	200W
Dimensions [WxDxH] (without the heating block)	200x235x120mm	200x235x120mm	200x235x120mm
Weight	7.3kg	7.3kg	7.3kg

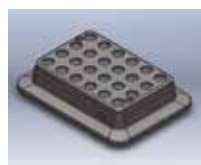
### Blocks



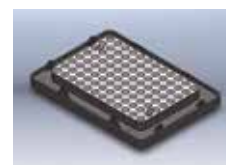
ABS467



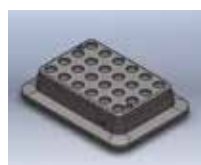
ABS473



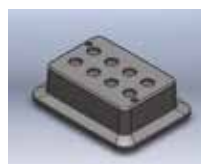
ABS468



ABS474



ABS469



ABS470



ABS471



ABS472

CAT. NO.	Capacity	Diameter x depth	Sale unit
ABS467	24 x 0.5ml	8.1 x 26mm	1
ABS468	24 x 1.5ml	10.9 x 31mm	1
ABS469	24 x 2ml	10.6 x 26mm	1
ABS470	8 x 5ml	13.6 x 36mm	1
ABS471	8 x 15ml	16.5 x 95mm	1
ABS472	4 x 50ml	28.7 x 75mm	1
ABS473	well plate	-	1
ABS474	0.2ml x 96 PCR plate	-	1



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International art exhibition



Venetian Market



Canal Grande



San Marco

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