

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



CryoGen® Tubes 1D
External cap

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



CryoGen® Tubes 1D
Internal cap

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



Vial Picker



Writing Cap Disks



CryoGen Tubes 2D
External cap

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



CryoGen Tubes 2D
Internal cap

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



Company Profile



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

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

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

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

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

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

For further information visit www.dutscher.com

Certifications



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

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



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



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



Registration Number: 3002945499

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

CE Marking



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



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Adherent to:



OGYRE and BIOSIGMA
together for the recovery
of litter from the ocean



CONFINDUSTRIA VENEZIA
AREA METROPOLITANA DI VENEZIA E ROVIGO

Member of:

ESBB

European, Middle Eastern
& African Society
for Biopreservation
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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°C (vapor phase of liquid nitrogen).

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

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

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

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

Autoclavable at 120°C for 20 minutes.

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

WARNING

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

CRYOTUBES

1D CRYOLINE

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



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

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

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

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



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

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

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

Chemical resistant caps

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

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

Standard code 128 barcode unique and unrepeatable

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

Vials and caps are **autoclavable**

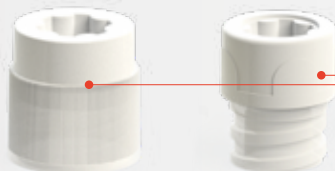
Printed graduations for accurate measurements

White writing surface for specimen identification

Chemical resistant polypropylene (PP) vial

Round bottom or self standing

Self-standing vials interlock in workstations



Our innovative screw caps **eliminate leakage and contamination**. Both internal and external screw caps are comolded 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

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



CryoGen Tubes Internal cap

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



1.2 ml



2.0 ml



4.0 ml



5.0 ml



Internal cap - case / 500

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

Internal cap - packaging in bulk

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

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



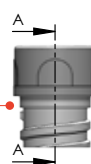
For automatic capper/decapper

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

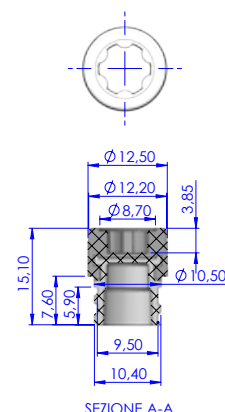
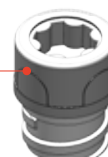


No contamination risk

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



Insert for color coding



CRYOTUBES

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

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



CryoGen Tubes External cap

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



1.2 ml



2.0 ml



3.0 ml



4.0 ml



5.0 ml

External cap - case / 500

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

External cap - packaging in bulk

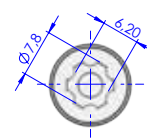
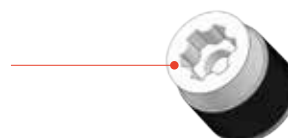
CAT. NO.	Vol. (ml)	Height (cm)	Bottom style	Internal packaging	Sale unit
CL1ARBEPSTS/B	1.2	4.02	Self Standing	bag / 50	carton / 4500
CL2ARBEPSTS/B	2.0	4.56	Self Standing	bag / 50	carton / 4000
CL2AREPSTS/B	2.0	4.45	Round bottom	bag / 50	carton / 4000
CL3ARBEPSTS/B	3.0	6.92	Self Standing	bag / 50	carton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

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



For automatic capper/decapper

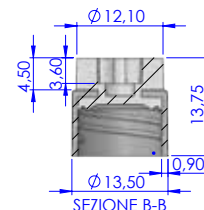
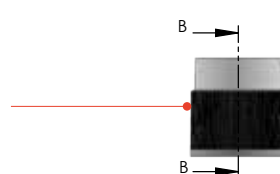
Star shaped top cavity is engineered for use with automatic decapping equipment (see page 19)



No contamination risk

Our innovative screw caps eliminate leakage and contamination.

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



Insert for color coding



CRYOBOXES

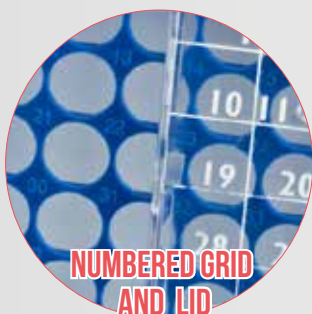
Cryoboxes in polycarbonate



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

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

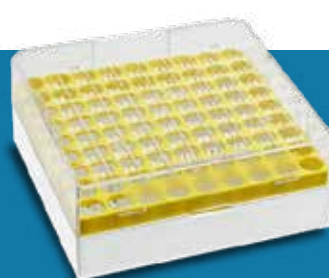
- ▶ Numerical grid printed on the lid
- ▶ Frosted area on both lid and bottom for an easy writing
- ▶ Colored grid
- ▶ For storing at temperatures as low as -196 °C (vapor phase of liquid nitrogen)
- ▶ Autoclavable at 121 °C for 20 minutes
- ▶ Vial Picker: Removal of vials facilitated by a vial picker.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



CLEARLine®
Accessories



25 Places



81 Places low

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

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

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

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



81 Places high



100 Places

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

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

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

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

CRYOBBOXES

1D Cryoboxes in polycarbonate



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



CLEARLine®
Accessories



25 Places



81 Places low

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

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

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



81 Places high

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

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



100 Places

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

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

2D CRYOLINE

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

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

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

Printed graduations for accurate measurements

White writing surface for specimen identification

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

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

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

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

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

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

Vials and caps are **autoclavable**

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

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

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

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

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

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

CryoGen Tubes 2D Internal cap

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



CryoGen Tubes 2D External cap

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



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

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

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

2D CRYOLINE

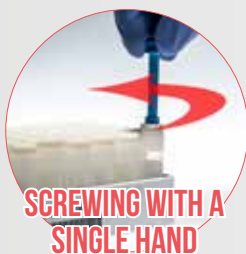
2D Cryoboxes in polycarbonate 81 and 100 places



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



AUTOMATIC RACK ORIENTATION



SCREWING WITH A SINGLE HAND



NUMBERED GRID AND LID



WRITING FROSTED AREA



BARCODE LASERED ON RACK SIDE

CLEARLine®
Accessories



81 Places 2D low



81 Places 2D high

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

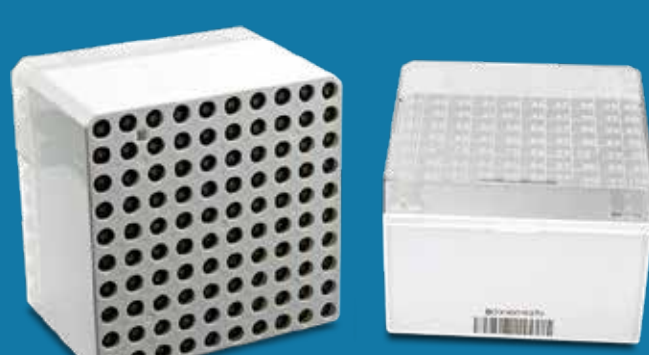
CAT. NO.	Grid Color	Dimensions (mm)	Internal packaging	Sale unit
BSM580612D/AZ	light blue	132x132x52	8 packs of 5 units	case/ 40
BSM580612D/RO	red	132x132x52	8 packs of 5 units	case/ 40
BSM580612D/V	green	132x132x52	8 packs of 5 units	case/ 40
BSM580612D/G	yellow	132x132x52	8 packs of 5 units	case/ 40

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

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



100 Places 2D low



100 Places 2D high

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

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

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

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

2D CRYOLINE

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



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

- ▶ Stackable
- ▶ Rack bottom with scanning windows for the Datamatrix of the contained cryotubes
- ▶ In Polypropylene
- ▶ Linear barcode

- ▶ Alphanumeric bottom
- ▶ Available for both 2 and 5 ml 2D CryoGen® Tubes
- ▶ Suitable for automatic capper-decapper
- ▶ Suitable for Cube Rack Reader

CLEARLine®
Accessories



SCREWING WITH
A SINGLE HAND



FOR CUBE RACK
READER



ENGRAVED LID



SCANNING WINDOW AND 2D
DATAMATRIX ON THE BOTTOM



LINEAR BARCODE
ON RACK SIDE



ENGRAVED
LETTERS

ALPHANUMERIC BOTTOM

SERIGRAPHED
LETTERS AND
NUMBERS

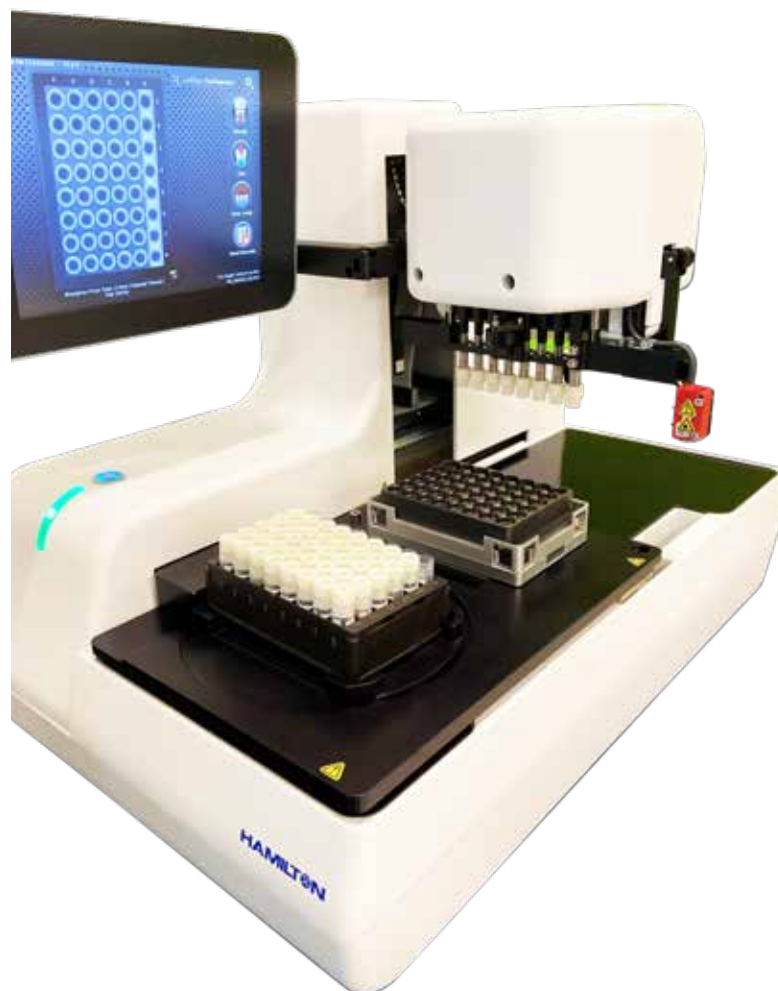


LINEAR
BARCODE
ON RACK SIDE

SERIGRAPHED
NUMBERS

ENGRAVED
LETTERS

**Tested compatibility with
Hamilton LabElite ID Capper
for 2D CryoGen® Tubes 2ml
Internal and External Cap**



48 PLACE ANSI/SLAS Racks (racks only)

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

48 PLACE ANSI/SLAS Racks Pre-Racked with Tubes

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

CRYOPACKAGE

Automated solution on the market to eliminate the risks and complications associated with storing and retrieving samples in liquid nitrogen tanks, minimising the risks to operators.

SMARTFREEZER® EVO and SMARTFREEZER® EVO LAB meet the following requirements:

1. SECURITY AND MANAGEMENT SPEED
2. HUMAN ERROR ELIMINATION
3. REDUCTION OF OPERATING COSTS
4. REMOTE MANAGEMENT
5. FULL EVENT TRACEABILITY
6. ELIMINATION OF OPERATOR'S RISKS



SINGLE SCREW DECAPPERS for CryoGen® Tubes

Electronic Decapper/Recapper and Tube Picker

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

FEATURES

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

Package Contents

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

CLEARLine® Accessories



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

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

Digital automatic Decapper/Recapper

FEATURES

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



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

Simple and Direct

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

Easy to Use

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

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

Writing cap disks

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



CLEARLine®
Accessories



Cap Disk for internal and external Cryogen Tubes screw caps.

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

Workstation for CryoGen® Tubes



CLEARLine®
Accessories

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

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



Workstation for CryoGen® tubes, 40 holes

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

Cryo Markers

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



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

Vial Picker for CryoGen® Tubes



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

CLEARLine®
Accessories



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

BOXES

Cryoboxes in polypropylene

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

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

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



Cardboard Cryoboxes

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

ClearLine white coated cardboard freezer boxes

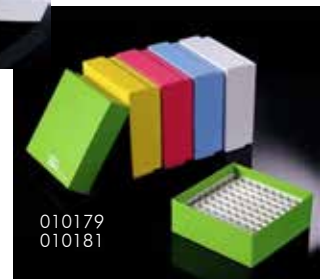
CAT. NO.	Grid	Sale unit
972015	81	1
972016	100	1



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

White or coloured cardboard cryoboxes with writing area

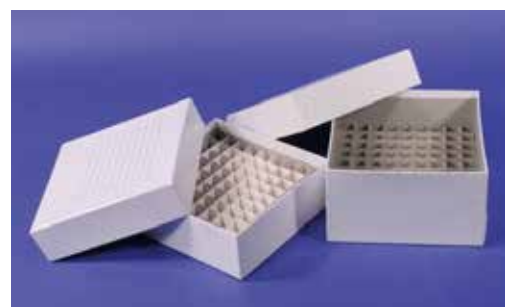
CAT. NO.	Color	Height (mm)	Grid	Sale unit
010163	white	75	81	1
010164	white	75	100	1
010179	assorted	50	81	5
010181	assorted	50	100	5



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

Laminated cardboard boxes

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



CRYOGENIC GLOVES

Support rod for canisters

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



CAT. NO.	Description	Sale unit
055030	Support rod	50

Cryoflex sheath

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



CAT. NO.	Description	Sale unit
055029	Cryoflex sheath	15

Cryogenic gloves

Protect yourself from extreme temperatures. Gloves made for very high or low temperatures, with an outer layer made of nylon and an interior made of a cotton - polyester complex protected by a 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				
	SMALL (S)	MEDIUM (M)	LARGE (L)	EXTRA LARGE (XL)	SMALL (S)	MEDIUM (M)	LARGE (L)	EXTRA LARGE (XL)	Sale unit
5 fingers 30 cm	035501	035502	035503	035504	035517	035518	035519	035520	1
5 fingers 38 cm	035505	035506	035507	035508	035521	035522	035523	035524	1
5 fingers 50 cm	035509	035510	035511	035512	035525	035526	035527	035528	1
5 fingers 68 cm	035513	035514	035515	035516	035529	035530	035531	035532	1

- ▶ 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

COOLING CONTAINERS

CoolCell containers

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

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



Cryocooler

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

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

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



Freezing Rack

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

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



Medical Grade Raw Materials

The quality of substances for pharmaceutical/medical, as a guarantee for their safe use and effectiveness must be evaluated according to standards, or specifics, continuously updated against the scientific-technological progress, any emerging problems and regulatory development. This implies a constant and dynamic review of the Texts that make up these rules and their subsequent publication in the "reference pharmacopoeia".

TUBE : POLYPROPYLENE

BI-INJECTED CAP : POLYETHYLENE +THERMOPLASTIC VULCANIZATE

STATEMENT ON COMPLIANCE TO REGULATIONS ON MEDICAL USE

The raw materials used to manufacture Biosigma's Cryogen Tubes fulfill the requirements on materials used for articles or components of articles intended for medical use as described in:

Council of Europe: European Pharmacopoeia, 7th edition (2011), and supplement 7.5 (07/2012)
Monograph 3.2.2. Plastic containers and closures for pharmaceutical use

USA: The product has passed the United States Pharmacopoeia testing including Class VI tests and has been assigned a FDA Drug Master File.

Additional information: Material has successfully passed the biological tests according to ISO 10993 - external communicating devices for indirect blood contact for a prolonged period.

What is ISO 10993

European standard for biological evaluation of medical devices. Comparable to the USP, however, more elaborate (more categories and more tests). The material used for our CryoGen tubes are tested for the production of external communication devices for use during an extended period of time (min 1 day - max 30 days) for indirect contact with the path of the blood (for example, the plastic to produce a catheter tube).

EXECUTED TESTS:

- ▶ Cytotoxicity
- ▶ Sensitization
- ▶ Intracutaneous reactivity (irritation)
- ▶ Systemic toxicity
- ▶ Haemocompatibility

EP = European Pharmacopoeia is a legislative text which includes chapters and monographs to be followed in the production, preparation and marketing of products for pharmaceutical / medical applications.

What is meant by "conforms to USP Class VI"

- ▶ The United States Pharmacopoeia (USP) sets standards to ensure the quality of medicines and other technologies for health care.
- ▶ Among these standards, there are those related to the Biological Reactivity tests for "elastomers, plastics and other polymeric material with which the patient may, directly or indirectly come into contact", defining a division into six classes.
- ▶ The Class VI is more rigid class and is the most widely used and accepted by the industry of medical products.
- ▶ Depending on the outcome of the analysis, the material can be used or not used for the production of medical devices.

Not required in Europe, however the majority of customers appreciate the USP approval.

What is DMF= Drug Master File

It's a technical file that is sent from the manufacturer of the product to the FDA (U.S.) in which are described:

- ▶ Production processes
- ▶ Commitments by the Director of the plants
- ▶ Product specifications (including formulation)
- ▶ Quality System
- ▶ Results of the USP tests
- ▶ List of authorized persons

Once approved, the FDA issues a number of DMF, with which it is registered in the database.

A DMF ensures consistency in formulas and production procedures.

Other Compliance

- ▶ REACH-Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles: ES.: phthalates, Low weight moleculars (known as DEHP, DBP, and BBP DIBP) are classified as toxic for breeding based on animal studies and are regulated in their use and included in the annex XIV of the REACH Regulation as "Substances of Very High Concern" (SVHC) and subject to authorization.
- ▶ CONEG (packaging and packaging waste - PPW) - Sum of Cd, Cr, Hg and Pb <100 ppm.
- ▶ Directive 2000/53/EC (ELV) - Cr (VI), Hg and Pb <0.1% by weight, Cd <0.01% by weight.
- ▶ Directive 2011/65/EU (Restriction of use of certain hazardous substances in electrical and electronic equipment and machinery - ROHS- Cr (VI), Hg, Pb, PBB and PBDE <0.1% by weight, Cd <0.01 % by weight.
- ▶ Directive 2002/96/EC (Waste Electrical and Electronic Equipment - WEEE) - Annex II - No ingredients are used requires a selective waste treatment (As, Hg, PCB, PCT, CFC, HCFC, HFC, brominated FR).
- ▶ Regulation 1005/2009/EC (Substances that deplete the ozone layer) - Prohibition of CFC's, HCFC's, Halons, CCl4, Trichloroethane, HBFC's.
- ▶ U.S. Clean Air Act, Title VI, classes I and II (EPA Final Rule, Federal Register 8136, 11.02.1993) on substances that deplete the ozone layer.
- ▶ Regulation 850/2004/EC on persistent organic pollutants (POPs).
- ▶ Directives 2003/89/EC, 2006/142/EC, 2007/68/EC, amending Directive 2000/13/EC - Annex IIIa (allergens).

The materials are also declared free of animal products, without a potential risk of TSE. BSE is chronic neurological disease, degenerative and irreversible that is part of a group of diseases known as transmissible spongiform encephalopathies (TSEs) that affect various animal species, including humans.

Sterilization certificate



Search CLEARLine
and sterilization certificates on
www.biosigma.com/certificate

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



Certificates

Search CLEARLine and sterilization certificates

Catalog number Required, Minimum 3 Characters

Insert catalog number ?

Lot number Required, Minimum 3 Characters

Insert lot number ?

Search certificates now

BIOSIGMA S.p.A. as a GREEN COMPANY



WE PREFER THE "GREEN"

OUR COMMITMENT TO SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL PROTECTION



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



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



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



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



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



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



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



Lighting of our factory 100% LED.



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



OGYRE and BIOSIGMA together for the recovery of litter from the ocean



INSIDE
FULL SPECIFICATIONS
OPEN HERE



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