

BioMicroLab

Made in Italy

# CRYOGENLine®

2D & 1D Barcoded Cryotubes—1.2 mL to 5 mL

CLEARLine®

"Be cool, be safe, be CLEARLine"

DNase  
RNase

Human  
DNA

PCR  
Inhibitors

ATP

Pyrogen

Beta Ray Sterile  
SAL 10<sup>-6</sup>  
EN ISO 11137

MEDICAL  
GRADE

## 2D CryoGen® Tubes

External & Internal Cap

Self-standing tubes include 2D datamatrix barcode on the base of the tube as well as 1D and human readable barcodes on the side.



2 mL      5 mL      5 mL      2 mL

## CryoBoxes & ANSI/SLAS Racks

For 2D & 1D Tubes



25, 81 & 100 Place Cryoboxes  
& 48-well ANSI/SLAS racks

## 1D CryoGen® Tubes

External & Internal Cap

Self-standing or round bottom tubes include 1D and human readable barcodes on the side.



External Threaded Cap

Internal Threaded Cap

## Cap Inserts & Colored Caps

are available for color coding and marking.



BioMicroLab





## CRYOWARE Product Line

### CRYOTUBES

BioMicroLab is pleased to offer a complete line of cryogenic vials and boxes to store specimens at temperatures as low as  $-196^{\circ}\text{C}$ . 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 side of the tubes. Our 2D CryoGen<sup>®</sup> tubes include a 2D data matrix barcode on the base of the tube as well as the 1D linear and human readable barcode on the side. Certified to 95kPa which makes the tubes suitable for low pressure air shipment.

### CRYOBXES

CryoGen<sup>®</sup> vials can be stored into Biosigma CryoGen<sup>®</sup> boxes, available in 25, 81 or 100-place, with or without a 1D barcode printed on the side of base as a box identifier. 2D CryoGen<sup>®</sup> boxes have open bases to decode the 2D barcodes on the bottom of vials. Boxes also include an embedded 2D barcode on the base to identify the box ID. Cryoboxes are made of polycarbonate to withstand temperatures as low as  $-196^{\circ}\text{C}$ . Autoclavable at  $120^{\circ}\text{C}$  for 20 minutes. 48-well polypropylene ANSI/SLAS racks are also available.

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

All products are made in Italy and ship from BioMicroLab (Concord, CA USA).

#### 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: suitable for storage from general cold storage refrigeration ( $+4^{\circ}\text{C}$ ) down to the vapor phase of liquid nitrogen.



# 2D & 1D Barcode Internal or External Cap

Available in 2 mL & 5 mL

CryoGen®  
CRYOTUBES

**CLEARLine®**  
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DNase  
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Human  
DNA

PCR  
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Pyrogen

Beta Ray Sterile  
SAL 10<sup>-6</sup>  
EN ISO 11137

MEDICAL  
GRADE

## Material

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

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

Chemical resistant polypropylene (PP) vial

Printed graduations for accurate measurements

Star shaped top cavity is engineered for use with decapping automation

Chemical resistant caps



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

Vials and caps are autoclavable

## Barcoding

2D Barcode on base and standard 128 barcode (1D) and human readable characters printed in both left and right hand orientation on the side for easy readability by all users.

The 2D datamatrix code at the base of the tube is secured into place with an ultrasonic weld. The 2D code is automatically generated from the linear barcode (1D on side of tube) during the manufacturing process. Strict quality control of each tube ensures every tube meets our high standards for readability during decoding.



White writing surface for additional specimen identification

## Co-Molded Leakproof Caps

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. **Caps are available in clear and 6 colors.**

**Color Coded Cap Inserts** for easy sample identification and/or writing are available.



Locking base feature prevents tubes from rotating within the rack / workstation during capping & decapping. The base includes channels for evacuation of any liquid nitrogen that could be trapped between the base of the tube and the 2D barcoded pad. Self-standing.

Internal  
Thread



External  
Thread



- 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: 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

Certificates Available for Download at [www.biosigma.com](http://www.biosigma.com)

\* Certificate of Analysis

\*\* Certificate of Validated Beta Rays Treatment

\*\*\* Declaration of Conformity CE-IVD



Dispenser Box  
500 pcs (10 bags of 50)

Inner sealed zip bags contain  
50 pcs & sterilization indicator

## Companion Cryoboxes

25, 81 & 100 Place for 1D & 2D Tubes



## CLEARLine®

"Be cool, be safe, be CLEARLine"



DNase  
RNase

Human  
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PCR  
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ATP

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Beta Ray Sterile  
SAL 10<sup>-6</sup>  
EN ISO 11137

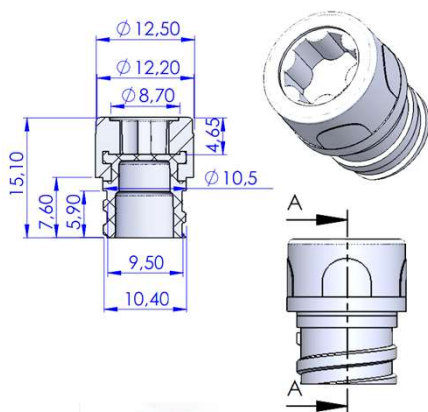
MEDICAL  
GRADE



Internal Threaded Cap



External Threaded Cap

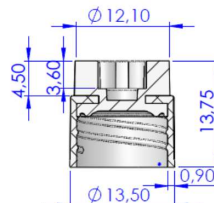
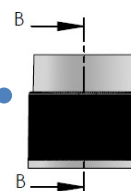
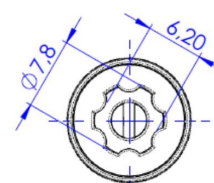
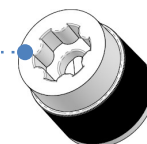


### For Automatic Capper/Decapper

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

### 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.



### 2D Barcode on Base

2D datamatrix code is permanently laser etched into base and ultrasonically welded into place.



### Color Coded Caps & Cap Inserts

Colored caps as well as cap inserts are available for easy sample identification or writing. Inserts (shown right) fit all cap sizes, both internal and external caps.



### CryoGen® Tubes 2DBarcode Internal Thread Cap

Part No.	Vol. (mL)	Height (cm)	Bottom Style	Internal Packaging	Sale Unit
CL2ARBIPS2D	2.0	4.82	Self-standing	50 / bag	500 / case
CL2ARBIPS2D/B	2.0	4.82	Self-standing	50 / bag	4000 / carton
CL5ARBIPS2D	5.0	9.03	Self-standing	50 / bag	500 / case
CL5ARBIPS2D/B	5.0	9.03	Self-standing	50 / bag	2000 / carton

### CryoGen® Tubes 2DBarcode External Thread Cap

Part No.	Vol. (mL)	Height (cm)	Bottom Style	Internal Packaging	Sale Unit
CL2ARBEPS2D	2.0	4.56	Self-standing	50 / bag	500 / case
CL2ARBEPS2D/B	2.0	4.56	Self-standing	50 / bag	4000 / carton
CL5ARBEPS2D	5.0	8.76	Self-standing	50 / bag	500 / case
CL5ARBEPS2D/B	5.0	8.76	Self-standing	50 / bag	2000 / carton

Colored Screw Caps are available by request.



# ANSI/SLAS RACK for 2D Barcoded Cryotubes

48 PLACE for 2 mL & 5 mL

**CryoGen®**  
**CRYOBBOXES**

**ANSI/SLAS-Standard 48-place Cryo Storage Rack**  
for 2 mL and 5 mL 2D Barcoded Cryotubes

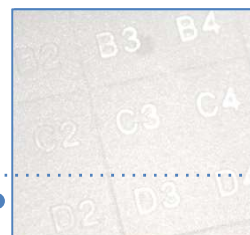
## FEATURES

- Scanning windows on the base of the rack enables decoding of 2D barcodes with BioMicroLab SampleScan™ Scanners and others
- Made of polypropylene
- Alphanumeric numbering on the base and engraved on the lid
- Suitable for use with automated decappers
- Stackable
- Pre-racked with tubes option
- 1D Rack ID barcode on side – *available by request*

**Alphanumeric**  
**Numbering** on Base  
& Engraved on Lid

**Open Base** for decoding  
2D barcodes on tube  
bottom

**Vial Picker** makes it easy  
to remove vials from the  
rack with one hand



**Bundle  
Packages  
Available**

The SampleScan™ Line includes 10+ models!  
Choose the best model for your lab at [biomicrolab.com/samplescan](http://biomicrolab.com/samplescan)

## Full Rack & Single Tube Readers

**Decode ANSI/SLAS  
Racks & Cryoboxes  
with BioMicroLab  
SampleScan™  
Barcode Readers!**



**48 PLACE ANSI/SLAS Racks (only)**



**48 PLACE ANSI/SLAS Racks Pre-Racked with Tubes**

Part No.	Description	Sale Unit
<b>BSM58048H</b>	48 Place Rack for 5 mL int/ext 2D CryoGen® tubes	10 racks / case
<b>BSM58048L</b>	48 Place Rack for 2 mL int/ext 2D CryoGen® tubes	20 racks / case

Part No.	Description	Tube Size	Sale Unit
<b>BSM58048HI</b>	48 Place Rack filled with 5 mL internal cap 2D CryoGen® tubes	5 mL	10 racks / case
<b>BSM58048HE</b>	48 Place Rack filled with 5 mL external cap 2D CryoGen® tubes	5 mL	10 racks / case
<b>BSM58048LI</b>	48 Place Rack filled with 2 mL internal cap 2D CryoGen® tubes	2 mL	20 racks / case
<b>BSM58048LE</b>	48 Place Rack filled with 2 mL external cap 2D CryoGen® tubes	2 mL	20 racks / case



## FEATURES

- These durable polycarbonate cryogenic storage boxes are designed to be used at temperatures between -196°C and +121°C
- Autoclavable at 121°C for 20 minutes
- 2D barcode on base enables automatic rack orientation
- Colored grids (81 place only)
- Vial Picker included with each pack

### Open Windows in Base

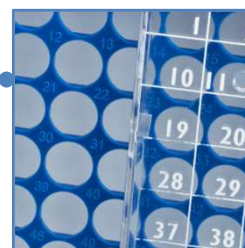
to decode 2D barcodes on the base of the tube

**Numeric Grid**  
printed on lid & grid

**Box Barcode** 1D & Human readable barcode is laser etched on the side of base

**Automatic Rack Orientation**  
with 2D embedded barcode on base

**Frosted Area on Lid and Base**  
to facilitate marking & writing



## 81 PLACE Low Profile Cryogen® Box

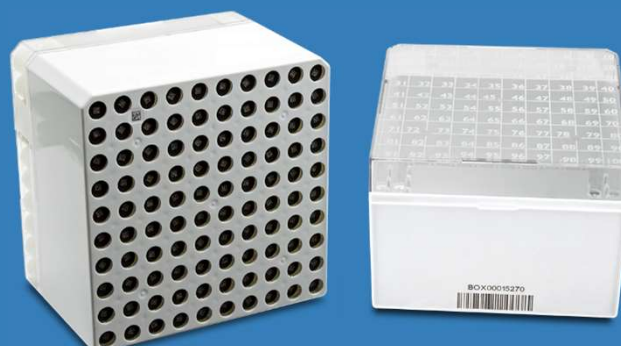
Compatible with 2 mL 2D tubes, with internal or external cap

Part No.	Grid Color	Dimensions (mm)	Internal Packaging	Sale Unit
BSM580612D/AZ	BLUE	132 x 132 x 52	8 packs of 5 units	40 / case
BSM580612D/RO	RED	132 x 132 x 52	8 packs of 5 units	40 / case
BSM580612D/V	GREEN	132 x 132 x 52	8 packs of 5 units	40 / case
BSM580612D/G	YELLOW	132 x 132 x 52	8 packs of 5 units	40 / case

## 81 PLACE High Profile Cryogen® Box

Compatible with 5 mL 2D tubes with internal or external cap

Part No.	Grid Color	Dimensions (mm)	Internal Packaging	Sale Unit
BSM580712D/AZ	BLUE	132 x 132 x 94	8 packs of 4 units	32 / case
BSM580712D/RO	RED	132 x 132 x 94	8 packs of 4 units	32 / case
BSM580712D/V	GREEN	132 x 132 x 94	8 packs of 4 units	32 / case
BSM580712D/G	YELLOW	132 x 132 x 94	8 packs of 4 units	32 / case



## 100 PLACE Low Profile Cryogen® Box

Compatible with 2 mL 2D tubes with internal cap (only)

Part No.	Color	Dimensions (mm)	Internal Packaging	Sale Unit
BSM581002D/B	WHITE	132 x 132 x 52	8 packs of 5 units	40 / case

## 100 PLACE High Profile Cryogen® Box

Compatible with 5 mL 2D tubes with internal cap (only)

Part No.	Color	Dimensions (mm)	Internal Packaging	Sale Unit
BSM581052D/B	WHITE	132 x 132 x 94	8 packs of 4 units	32 / case



# 1D Barcode Internal or External Cap

Available in 1.2 mL–5 mL

**CryoGen®**  
**CRYOTUBES**

**CLEARLine®**

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DNase  
RNase

Human  
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Inhibitors

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Pyrogen

Beta Ray Sterile  
SAL 10<sup>-6</sup>  
EN ISO 11137

MEDICAL  
GRADE

## Material

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

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

Chemical resistant polypropylene (PP) vial

Printed graduations for accurate measurements

Star shaped top cavity is engineered for use with decapping automation

Round bottom or self-standing

Chemical resistant caps

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

Vials and caps are autoclavable

## Barcoding

Standard 128 barcode (1D) on each vial and human readable characters printed in both left and right hand orientation for easy readability by all users.

White writing surface for additional specimen identification

Self-standing vials with locking base feature interlock in workstations, preventing tube rotation during capping & decapping operations

## Co-Molded Leakproof Caps

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. **Caps are available in clear and 6 colors.**

**Color Coded Cap Inserts** for easy sample identification and/or writing are available.



Internal  
Thread



External  
Thread

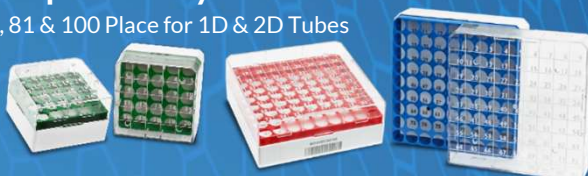


Dispenser Box  
500 pcs (10 bags of 50)

Inner sealed zip bags contain  
50 pcs & sterilization indicator

## Companion Cryoboxes

25, 81 & 100 Place for 1D & 2D Tubes



- 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: 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

Certificates Available for Download at [www.biosigma.com](http://www.biosigma.com)

\* Certificate of Analysis

\*\* Certificate of Validated Beta Rays Treatment

\*\*\* Declaration of Conformity CE-IVD



**BioMicro**





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MEDICAL  
GRADE

## For Automatic Capper/Decapper

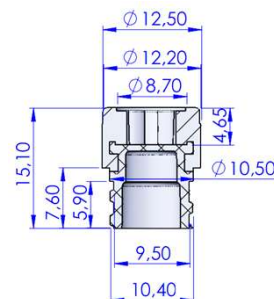
Star shaped top cavity is engineered for use with automatic decapping equipment.

## 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.

## Color Coded Caps & Cap Inserts

Colored caps and cap inserts (shown right) are available by request for easy sample identification or writing. Inserts fit all cap sizes, both internal and external caps.



## CryoGen® Tubes 1D Barcode Internal Thread Cap

Part No.	Volume (mL)	Height (cm)	Bottom Style	Internal Packaging	Sale Unit
CL1ARBIPSTS	1.2	4.27	Self-standing	50 / bag	500 / case
CL2ARBIPSTS	2.0	4.82	Self-standing	50 / bag	500 / case
CL2ARIPSTS	2.0	4.70	Round bottom	50 / bag	500 / case
CL4ARBIPSTS	4.0	7.62	Self-standing	50 / bag	500 / case
CL4ARIPSTS	4.0	7.50	Round bottom	50 / bag	500 / case
CL5ARBIPSTS	5.0	9.03	Self-standing	50 / bag	500 / case
CL5ARIPSTS	5.0	8.92	Round bottom	50 / bag	500 / case

## Bulk

Part No.	Volume (mL)	Height (cm)	Bottom Style	Internal Packaging	Sale Unit
CL1ARBIPSTS/B	1.2	4.27	Self-standing	50 / bag	4500 / carton
CL2ARBIPSTS/B	2.0	4.82	Self-standing	50 / bag	4000 / carton
CL2ARIPSTS/B	2.0	4.70	Round bottom	50 / bag	4000 / carton
CL4ARBIPSTS/B	4.0	7.62	Self-standing	50 / bag	2500 / carton
CL4ARIPSTS/B	4.0	7.50	Round bottom	50 / bag	2500 / carton
CL5ARBIPSTS/B	5.0	9.03	Self-standing	50 / bag	2000 / carton
CL5ARIPSTS/B	5.0	8.92	Round bottom	50 / bag	2000 / carton

Colored Screw Caps are available by request



# 1D Barcode External Cap

1.2 mL 2 mL 3 mL 4 mL 5 mL

CryoGen®  
CRYOTUBES

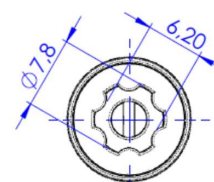
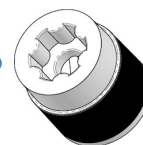


**CLEARLine®**  
"Be cool, be safe, be CLEARLine"



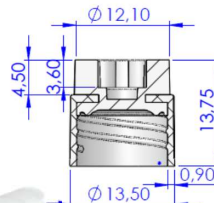
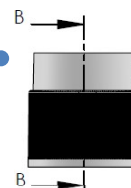
## For Automatic Capper/Decapper

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



## 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.



## Color Coded Caps & Cap Inserts

Colored caps and cap inserts are available by request for easy sample identification or writing. Inserts fit all cap sizes, both internal and external caps.



## CryoGen® Tubes 1DBarcode External Thread Cap

Part No.	Volume (mL)	Height (cm)	Bottom Style	Internal Packaging	Sale Unit
CL1ARBEPSTS	1.2	4.02	Self-standing	50 / bag	500 / case
CL2ARBEPSTS	2.0	4.56	Self-standing	50 / bag	500 / case
CL2AREPSTS	2.0	4.45	Round bottom	50 / bag	500 / case
CL3ARBEPSTS	3.0	6.92	Self-standing	50 / bag	500 / case
CL4ARBEPSTS	4.0	7.36	Self-standing	50 / bag	500 / case
CL5ARBEPSTS	5.0	8.76	Self-standing	50 / bag	500 / case

## Bulk

Part No.	Volume (mL)	Height (cm)	Bottom Style	Internal Packaging	Sale Unit
CL1ARBEPSTS/B	1.2	4.02	Self-standing	50 / bag	4500 / carton
CL2ARBEPSTS/B	2.0	4.56	Self-standing	50 / bag	4000 / carton
CL2AREPSTS/B	2.0	4.45	Round bottom	50 / bag	4000 / carton
CL3ARBEPSTS/B	3.0	6.92	Self-standing	50 / bag	2500 / carton
CL4ARBEPSTS/B	4.0	7.36	Self-standing	50 / bag	2500 / carton
CL5ARBEPSTS/B	5.0	8.76	Self-standing	50 / bag	2000 / carton

Colored Screw Caps are available by request



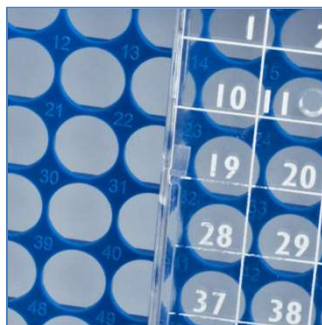
BioMicro



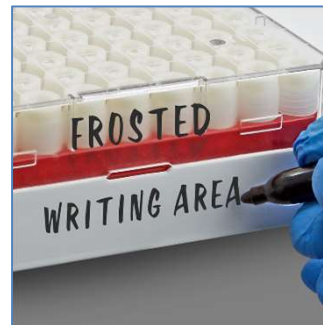
## FEATURES

- These durable polycarbonate cryogenic storage boxes are designed to be used at temperatures between -196°C and +121°C
- Autoclavable at 121°C for 20 minutes
- Colored Grids
- Vial Picker included with each pack

Please note not all boxes are compatible with every cryotube.



**Numeric Grid**  
printed on lid & grid



**Frosted Area on Lid and Base**  
to facilitate marking & writing



## 25 PLACE Cryogen® Box

Compatible with 1.2 & 2 mL tubes, external and internal cap

Part No.	Grid Color	Dimensions (mm)	Internal Packaging	Sale Unit
BSM58025B/AZ	BLUE	76 x 76 x 52	6 packs of 8 units	48 / case
BSM58025B/RO	RED	76 x 76 x 52	6 packs of 8 units	48 / case
BSM58025B/V	GREEN	76 x 76 x 52	6 packs of 8 units	48 / case
BSM58025B/G	YELLOW	76 x 76 x 52	6 packs of 8 units	48 / case



## 81 PLACE Low Profile Cryogen® Box

Compatible with 1.2 & 2 mL tubes, external and internal cap

Part No.	Grid Color	Dimensions (mm)	Internal Packaging	Sale Unit
BSM58061B/AZ	BLUE	132 x 132 x 52	8 packs of 5 units	40 / case
BSM58061B/RO	RED	132 x 132 x 52	8 packs of 5 units	40 / case
BSM58061B/V	GREEN	132 x 132 x 52	8 packs of 5 units	40 / case
BSM58061B/G	YELLOW	132 x 132 x 52	8 packs of 5 units	40 / case



## 81 PLACE High Profile Cryogen® Box

Compatible with 3 mL, 4 mL & 5 mL tubes with external cap  
5 mL with internal cap

Part No.	Grid Color	Dimensions (mm)	Internal Packaging	Sale Unit
BSM58071B/AZ	BLUE	132 x 132 x 94	8 packs of 4 units	32 / case
BSM58071B/RO	RED	132 x 132 x 94	8 packs of 4 units	32 / case
BSM58071B/V	GREEN	132 x 132 x 94	8 packs of 4 units	32 / case
BSM58071B/G	YELLOW	132 x 132 x 94	8 packs of 4 units	32 / case



## 100 PLACE Low Profile Cryogen® Box

Compatible with 1.2 & 2 mL tubes, internal cap (only)

Part No.	Grid Color	Dimensions (mm)	Internal Packaging	Sale Unit
BSM58100/B	WHITE	132 x 132 x 52	8 packs of 5 units	40 / case
BSM58100/AZ	BLUE	132 x 132 x 52	8 packs of 5 units	40 / case
BSM58100/RO	RED	132 x 132 x 52	8 packs of 5 units	40 / case
BSM58100/V	GREEN	132 x 132 x 52	8 packs of 5 units	40 / case
BSM58100/G	YELLOW	132 x 132 x 52	8 packs of 5 units	40 / case



# CryoGen® BOXES for 1D Barcoded Cryotubes

25, 81 & 100 PLACE with box ID

**CLEARLine®**  
**CRYOBXES**

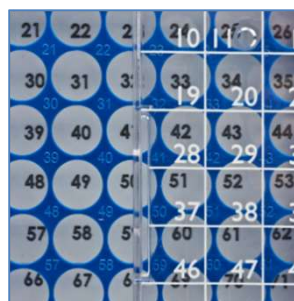
## FEATURES

- These durable polycarbonate cryogenic storage boxes are designed to be used at temperatures between -196°C and +121°C
- Autoclavable at 121°C for 20 minutes
- Colored Grids
- Vial Picker included with each pack

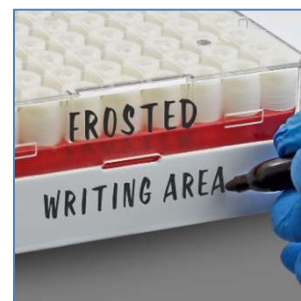
Please note not all boxes are compatible with every cryotube.



**Box Barcode** 1D & Human Readable barcode is laser etched on the side of the base



**Numeric Grid** printed on lid, grid & base



**Frosted Area on Lid and Base** to facilitate marking & writing



## 25 PLACE Cryogen® Box

Compatible with 1.2 & 2 mL tubes, external and internal cap

Part No.	Grid Color	Dimensions (mm)	Internal Packaging	Sale Unit
BSM58025B1D/AZ	BLUE	76 x 76 x 52	6 packs of 8 units	48 / case
BSM58025B1D/RO	RED	76 x 76 x 52	6 packs of 8 units	48 / case
BSM58025B1D/V	GREEN	76 x 76 x 52	6 packs of 8 units	48 / case
BSM58025B1D/G	YELLOW	76 x 76 x 52	6 packs of 8 units	48 / case

## 81 PLACE Low Profile Cryogen® Box

Compatible with 1.2 & 2 mL tubes, external and internal cap

Part No.	Grid Color	Dimensions (mm)	Internal Packaging	Sale Unit
BSM58061B1D/AZ	BLUE	132 x 132 x 52	8 packs of 5 units	40 / case
BSM58061B1D/RO	RED	132 x 132 x 52	8 packs of 5 units	40 / case
BSM58061B1D/V	GREEN	132 x 132 x 52	8 packs of 5 units	40 / case
BSM58061B1D/G	YELLOW	132 x 132 x 52	8 packs of 5 units	40 / case



## 81 PLACE High Profile Cryogen® Box

Compatible with 3 mL, 4 mL & 5 mL tubes with external cap  
5 mL with internal cap

Part No.	Grid Color	Dimensions (mm)	Internal Packaging	Sale Unit
BSM58071B1D/AZ	BLUE	132 x 132 x 94	8 packs of 4 units	32 / case
BSM58071B1D/RO	RED	132 x 132 x 94	8 packs of 4 units	32 / case
BSM58071B1D/V	GREEN	132 x 132 x 94	8 packs of 4 units	32 / case
BSM58071B1D/G	YELLOW	132 x 132 x 94	8 packs of 4 units	32 / case

## 100 PLACE Low Profile Cryogen® Box

Compatible with 1.2 & 2 mL tubes, internal cap (only)

Part No.	Grid Color	Dimensions (mm)	Internal Packaging	Sale Unit
BSM581001D/B	WHITE	132 x 132 x 52	8 packs of 5 units	40 / case

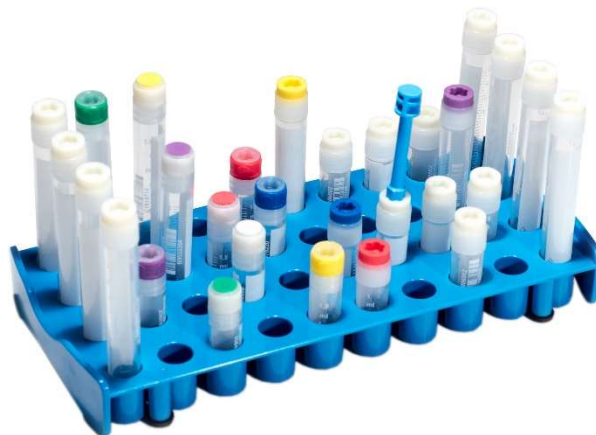




## CAP INSERTS for Color Coding & Writing

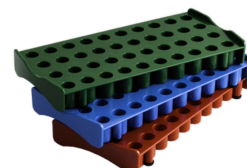
- Made with medical grade raw material
- Wide surface for easy writing
- For both internal and external screw caps
- Fit all tube sizes and caps
- 6 colors available

Part No.	Color	Internal Packaging	Sale Unit
CRY910TS/AZ	BLUE	1000 / bag	3000 / unit
CRY910TS/RO	RED	1000 / bag	3000 / unit
CRY910TS/V	GREEN	1000 / bag	3000 / unit
CRY910TS/G	YELLOW	1000 / bag	3000 / unit
CRY910TS/VI	VIOLET	1000 / bag	3000 / unit
CRY910TS/BI	WHITE	1000 / bag	3000 / unit



## WORKSTATION Holds 40 CryoGen® Tubes

- Useful for screwing and unscrewing tubes directly on the bench with a single hand, avoiding possible contamination.
- Made of durable polycarbonate
- Available in 3 colors
- Autoclavable
- 40 positions



Part No.	Color	Dimensions (mm)	Sale Unit
BSM5810/AZ	BLUE	21.5 x 10 x 2.5	5 / unit
BSM5810/RO	RED	21.5 x 10 x 2.5	5 / unit
BSM5810/V	GREEN	21.5 x 10 x 2.5	5 / unit

## VIAL PICKER for CryoGen® Tubes

- Easily remove vial after freezing, even with just one hand
- For both internal and external caps
- Supplied with each Cryobox® inner pack



Part No.	Grid Color	Internal Packaging	Sale Unit
CRY920TS	BLUE	100 / bag	600 / case

## BARCODE READERS for CryoBoxes & ANSI/SLAS Racks

The popular BioMicroLab SampleScan™ Line of single and rack barcode readers offers a model for every lab. Learn more at [biomicrolab.com/samplescan](http://biomicrolab.com/samplescan)





# Automation Instruments by BioMicroLab



## BioMicroLab equips laboratories worldwide with essential automation for sample handling workflows

BioMicroLab's vial handlers, rack scanners, tube labelers and more are found in biotech, pharmaceutical and research laboratories around the world. With a 24+ year track record in designing, building and supporting automated instrumentation, BioMicroLab provides customers with unparalleled support.

## XL Series Tube & Vial Handlers

Liquid Handling, Weighing, Re-arraying, Label Printing & More

We specialize in modular benchtop handlers that are configured at the factory with the features your lab requires. From 96 well microtubes to glass vials and cryovials, the XL Series Tube Handlers accelerate your sample management processes.

Models: XL200, XL100, XL20, XL9



## VolumeCheck™

Standalone Volume Detection for SLAS Racks

Non-contact volume detection for ANSI/SLAS well plates or uncapped tubes.

Models: VolumeCheck384, VolumeCheck100, VolumeCheck50

## SampleScan™ Barcode Scanners

Decoding 2D Barcoded Tubes in ANSI/SLAS Racks & Cryoboxes

We offer a complete line of rack readers including high-speed scanners, frozen rack scanners, single tube readers and Rack ID scanners.

Models: We offer 10+ SampleScan models. Explore the line at [biomicrolab.com/samplescan](http://biomicrolab.com/samplescan) or contact us to find the best scanner based on your labware and application.



## Our Product Evaluation Program

We know how important it is to find the right instrument for your lab. BioMicroLab is happy to provide evaluation units for review with your lab's application or workflow. Make a request at [biomicrolab.com/evaluationunits](http://biomicrolab.com/evaluationunits)

## Label Printers for Tubes & Vials

Label Printing and Application of Labels Designed by You

The XL LabelPro™ can be integrated with any XL Series Tube Handler for automated printing and labeling, or a standalone model is available for smaller runs.



## Lab Tools & More

Rack Thawing Station, Capping/Decapping, Ionizer & More

BioMicroLab offers standalone capping & decapping, a Rack Thawing Station, Ionizer to improve balance readability, and more.

## Contact Us

[sales@BioMicroLab.com](mailto:sales@BioMicroLab.com)  
+1 (925) 689-1200  
[biomicrolab.com](http://biomicrolab.com)

**BioMicroLab**



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 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.



LADR GmbH  
Medizinisches Versorgungszentrum Bremen  
Bereich Lebensmittel- & Umweltanalytik  
Leitung: Dipl.-Biol. Thomas Weigel



## Certificato di Analisi | Certificate of Analysis



Codice Prodotto / Catalog number: **CL2ARBEPSTS(/B)**

Numero di lotto / Lot number: **17P1005402**

- **DNA umano / Human DNA:**  
Metodo / Method: Polymerase Chain Reaction  
Limiti / Limit: < 2 pg; meno di una cellula umana / less than one human cell
- **DNase**  
Metodo / Method: Digestione DNA / DNA digestion  
Limiti / Limit: Non rilevabile / not detectable (LOD  $1.0 \times 10^{-6}$  Kunitz-units)
- **RNase**  
Metodo / Method: Digestione RNA / RNA digestion  
Limiti / Limit: Non rilevabile / not detectable (LOD  $1.0 \times 10^{-9}$  Kunitz-units)
- **Inibizione PCR / PCR inhibition:**  
Metodo / Method: Polymerase Chain Reaction  
Limiti / Limit: Meno di 10 targets amplificabili / Less than 10 targets amplifiable
- **Endotossine / Endotoxin:**  
Metodo del test / Test method: Cinetico turbidimetrico LAL test (Ph. Eur.) / Kinetic-turbidimetric LAL test (Ph. Eur.)  
Limit / Limit: < 0.001 EE (EU; I.E.; I.U.) /ml
- **ATP**  
Metodo del test / Test method: Test di pre-sterilizzazione / Pre-sterilization test. Bioburden test  
Limite / Limit: <  $5.5 \times 10^{-12}$  mg

I test del lotto sopra descritto hanno dimostrato la conformità ai limiti di rilevamento. Il lotto viene rilasciato per l'uso.

*Testing of the above described lot showed conformity within limits of detection. The lot is released for use.*

2017-04-10

Data / Date

Bio1703-865

Numero di registrazione /  
Registration number

Dr. Weigel

Dipl. Biol. Thomas Weigel

I risultati dei test si riferiscono esclusivamente agli articoli testati. Il certificato non deve essere copiato nemmeno parzialmente senza l'approvazione del laboratorio LADR GmbH.

*The test results refer exclusively to the item tested. The certificate must not be copied partially without the approval of LADR GmbH.*

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