CryoGen Tubes 2D External cap

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

2,0 ml   5,0 ml

CryoGen® Tubes 1D External cap

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

1,2 ml   2,0 ml   2,0 ml   3,0 ml   4,0 ml   5,0 ml

CryoGen® Tubes 1D Internal cap

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

1,2 ml   2,0 ml   2,0 ml   4,0 ml   4,0 ml   5,0 ml   5,0 ml

CryoGen Tubes 2D Internal cap

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

2,0 ml   5,0 ml

Vial Picker

Writing Cap Disks

BIOSIGMA S.p.A.
as a GREEN COMPANY

treedom®
let's green the planet

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

Welcome to the Jungle.

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

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

WE PREFER THE "GREEN"

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.

CRYOWARE

Biosigma offers a complete line of cryogenic vials and boxes for storing specimens at temperatures as low as -196 C° (vapor phase of liquid nitrogen).

Biosigma CryoGen® tubes are certified free of human DNA, DNase/RNase/Endotoxins/ATP/PCR inhibitors, sterile SAL 10^{-6} and IATA PI 650. They have a unique and consecutive 1D barcode printed on the tubes' bodies.

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

CryoGen® vials can be stored in Biosigma CryoGen® boxes, with 25, 81 or 100 places, which have a 1D linear barcode printed on the box side or 2D CryoGen® boxes which also have a 2D matrix barcode on the boxes' bottoms.

Cryoboxes are made of polycarbonate to withstand temperatures as low as -196 C° (vapor phase of liquid nitrogen). They are autoclavable at 120 C° for 20 minutes.

The raw material used is medical grade and certified USP Class VI, in accordance with United States Pharmacopeia and ISO 10993.

WARNING

Do not store CryoGen® tubes in liquid phase Nitrogen. Ingress of Nitrogen into the tube can occur by causing the tube to rupture when taken out of storage. May cause injury and loss of tube contents. Working Temperature: suitable for storage from general cold storage refrigeration (+4°C) down to the vapor phase of liquid nitrogen.
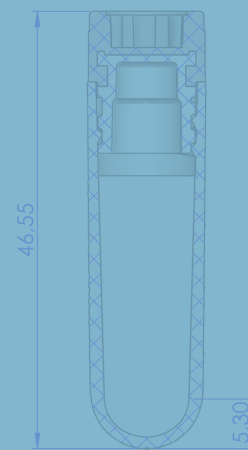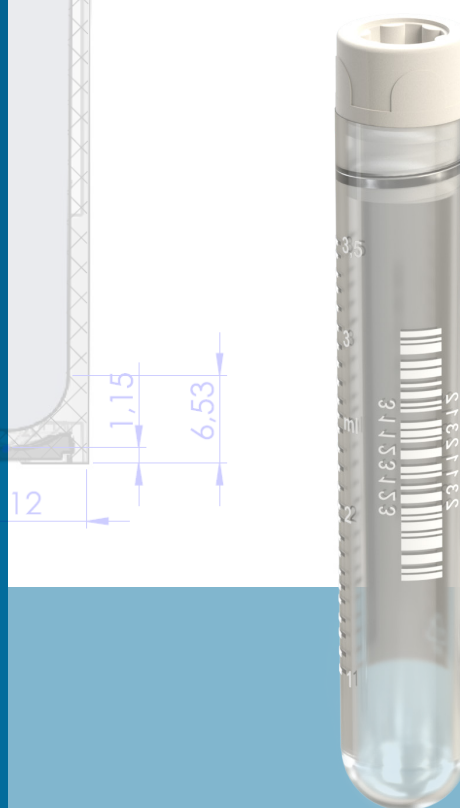
1D CRYOLINE

CryoGen® Tubes / 1D linear barcode

- Human DNA, DNase, RNase, Endotoxins, ATP, PCR inhibitors free certified*
- Sterile SAL 10⁻⁶ *
- 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

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

CLEARLine® Certified

DNase RNase | Human DNA | PCR Inhibitors | ATP | Endotoxin | Beta Ray Sterile SAL 10⁻⁶ EN ISO 11137 | MEDICAL GRADE

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

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

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

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

Round bottom or **self standing**

Star shaped top cavity is engineered foruse with automatic decapping equipment

Chemical resistant caps

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

Vials and caps are **autoclavable**

Printed graduations for accurate measurements

White writing surface for specimen identification

Chemical resistant polypropylene (PP) vial

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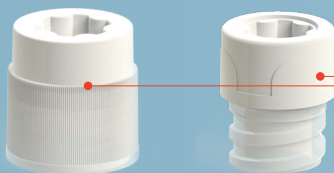
Our innovative screw caps **eliminate leakage and contamination**. Both internal and external screw caps are co-molded with a thermoplastic elastomer (TPV) layer and are 95kPa certified to provide a 100% leak-proof seal. This proprietary molding process eliminates the risk of contamination associated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

Be cool, be safe, be **CLEAR**Line

Dispenser Box
500 pcs (10 bags of 50)

Inner sealed Zip bag of 50 pcs
With sterilization indicator

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

Barcode lasered on rack side

Numbered grid and lid

Writing frosted area

Vial picker
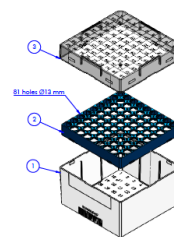
Box 25 & 81
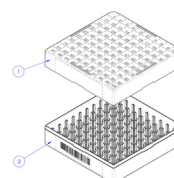
Box 100

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

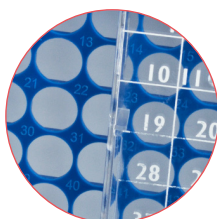| CAT. NO.	Grid Color	Dimensions (mm)	Internal packaging	Sale unit
BSM58061B1D/AZ	light blue	132x132x52	8 packs of 5 units	case / 40
BSM58061B1D/RO	red	132x132x52	8 packs of 5 units	case / 40
BSM58061B1D/V	green	132x132x52	8 packs of 5 units	case / 40
BSM58061B1D/G	yellow	132x132x52	8 packs of 5 units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

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

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

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

2D CRYOLINE

CryoGen® Tubes / 2D barcode

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

DNase RNase | Human DNA | PCR Inhibitors | ATP | Endotoxin | Beta Ray Sterile SAL 10⁻⁶ EN ISO 11137 | MEDICAL GRADE

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

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

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

Printed graduations for accurate measurements

White writing surface for specimen identification

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

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

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

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

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

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

Vials and caps are **autoclavable**

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

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

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

- Human DNA, DNase, RNase, Endotoxins, ATP, PCR inhibitors free certified*
- Sterile SAL 10⁻⁶ *
- 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

CryoGen Tubes 2D Internal cap
Sterile, DNase, RNase, Human DNA, ATP, Endotoxins free

2.0 ml   5.0 ml

CryoGen Tubes 2D External cap
Sterile, DNase, RNase, Human DNA, ATP, Endotoxins free

2.0 ml   5.0 ml
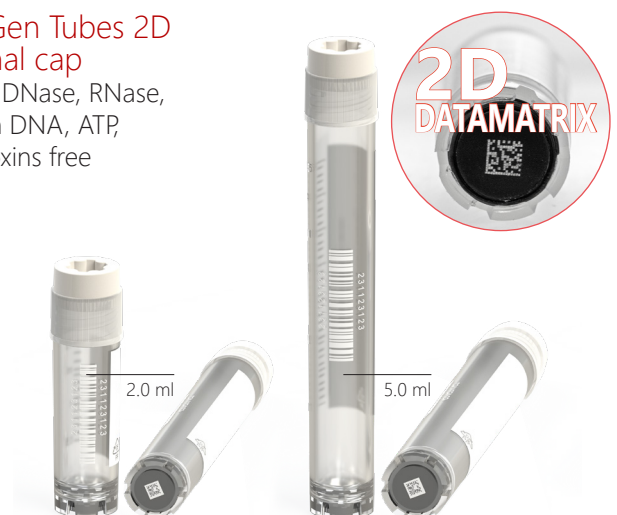
Internal cap

CAT. NO.	Vol. (ml)	Height (mm)	Bottom style	Internal packaging	Sale unit
CL2ARBIPS2D	2.0	47.70 ± 0.34	Self Standing	bag / 50	case / 500
CL2ARBIPS2D/B	2.0	47.70 ± 0.34	Self Standing	bag / 50	carton / 4000
CL5ARBIPS2D	5.0	90 ± 0.44	Self Standing	bag / 50	case / 500
CL5ARBIPS2D/B	5.0	90 ± 0.44	Self Standing	bag / 50	carton / 2000

External cap

CAT. NO.	Vol. (ml)	Height (mm)	Bottom style	Internal packaging	Sale unit
CL2ARBEPS2D	2.0	47 ± 0.34	Self Standing	bag / 50	case / 500
CL2ARBEPS2D/B	2.0	47 ± 0.34	Self Standing	bag / 50	carton / 4000
CL5ARBEPS2D	5.0	89.25 ± 0.44	Self Standing	bag / 50	case / 500
CL5ARBEPS2D/B	5.0	89.25 ± 0.44	Self Standing	bag / 50	carton / 2000

2D Cryoboxes in polycarbonate 81 and 100 places

- Automatic identification of the box and of its positioning through 2D datamatrix code, on the box bottom
- Barcode "code 128" lasered on rack side.
- Numerical grid on lid
- Frosted writing area
- Colored grid

- For storing at temperatures as low as -196 °C (vapor phase of liquid nitrogen)
- Autoclavable at 121 °C for 20 minutes
- Vial Picker supplied with each inner pack
- White bottom
- In polycarbonate

CLEARLine®
Accessories
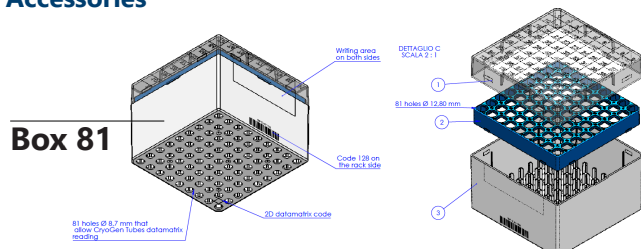
Box 81
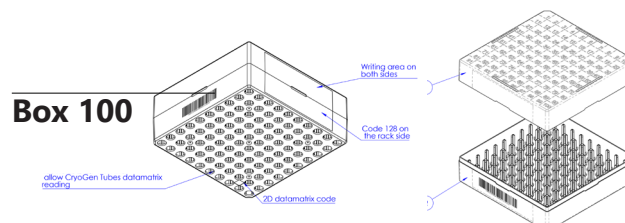
Box 100

Automatic Rack Orientation

Screwing with a single hand

Numbered grid and lid

Writing frosted area

Barcode lasered on rack side

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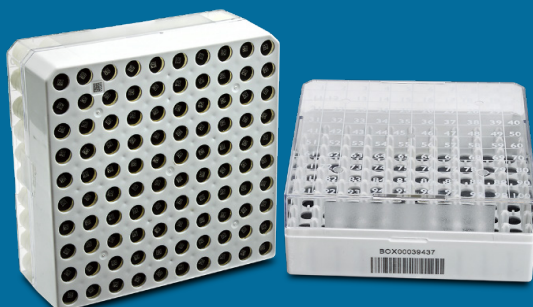
Box 100 LOW pad printed grid lid 2D
for 2 ml tubes, intenal cap

CAT. NO.	Color	Dimensions (mm)	Internal packaging	Sale unit
BSM581002D/B	white	132x132x52	8 packs of 5 units	case / 40
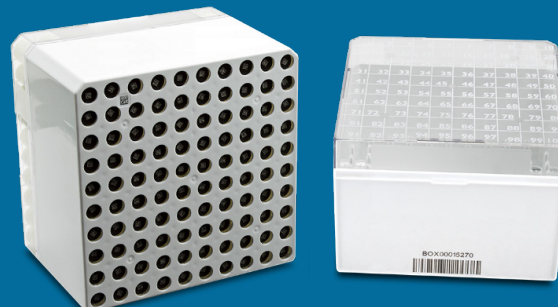
Box 100 HIGH pad printed grid lid 2D
for 5 ml tubes, internal cap

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

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

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

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

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

CLEARLine®
Accessories

Screwing with a single hand

For Cube Rack Reader
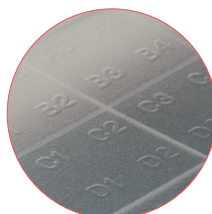
Engraved Lid

Scanning window and 2D datamatrix on the bottom

Linear barcode on rack side

Engraved letters **Alphanumeric bottom** **serigraphed letters and numbers**
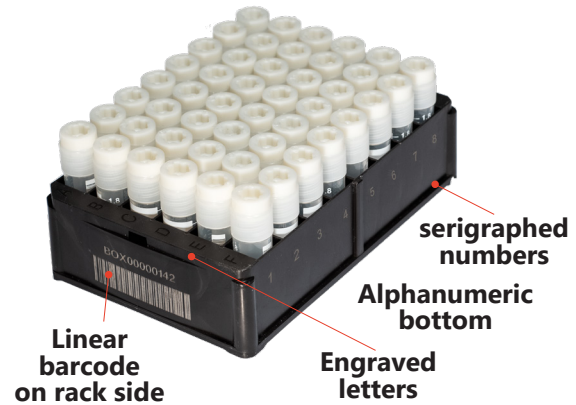
Linear barcode on rack side **Engraved letters** **Alphanumeric bottom** **serigraphed numbers**

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
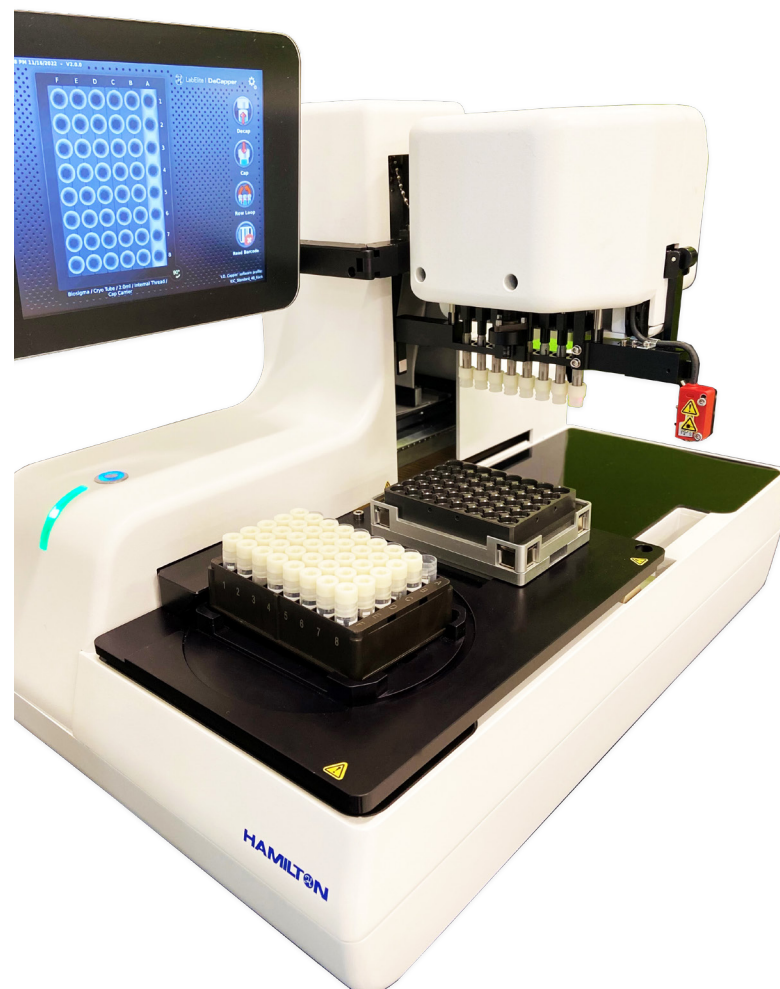
CRYOPACKAGE

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

CRYOGEN® TUBES 2D

SMARTFREEZER® EVO LAB
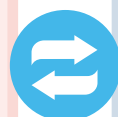
SINGLE SCREW DECAPPERS for CryoGen® Tubes

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

CLEARLine®
Accessories

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

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

CLEARLine®
Accessories

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

Scanner 2D

DataPaq™ Cube Rack Reader

A compact, versatile, quick and robust scanner with minimal cabling. The DataPaq™ Cube Rack Reader is a 2D datamatrix tube camera reader with a scan & decode time of 1-2 seconds on a 'normal' computer.
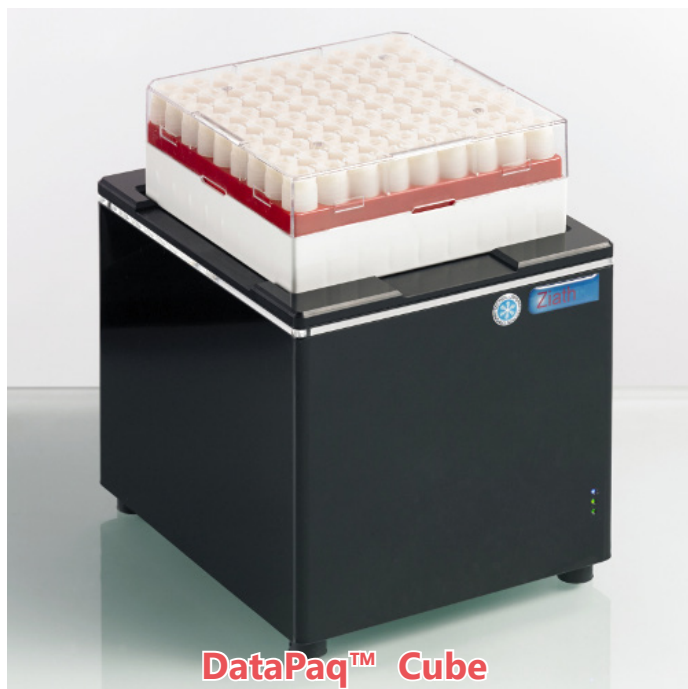
The Cube can read all racks on the market including 2D Cryoboxes and SBS racks; even 384 racks.

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

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

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

Free DataPaq™ software upgrades for life.

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

DataPaq™ Cube

DataPaq™ Cube Rack Reader

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

Manual scanner

Single Tube Reader 1D/2D

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

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

A sample management system optimised for your laboratory's needs

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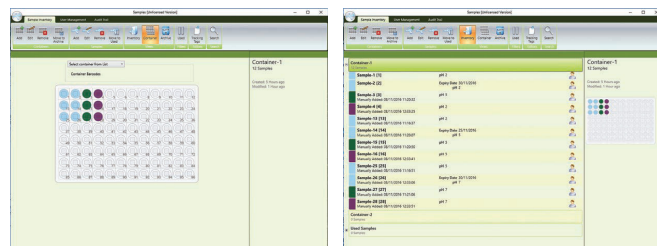
Inventory View and Container View
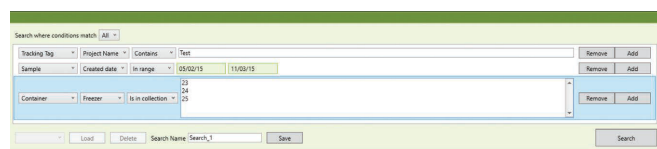
Save and customise multi-parameter searches

EASY DATA INPUT

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

CUSTOM DESCRIPTORS

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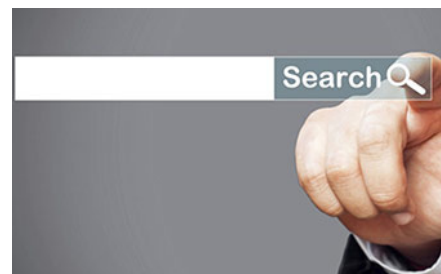
POWERFUL SEARCHING

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

Samples software

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

ACCESSORIES

Writing cap disks

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

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
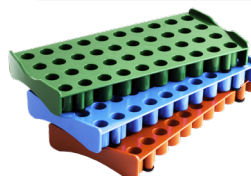
Workstation for CryoGen® Tubes

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

CLEARLine®
Accessories

- 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

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

CRYOWARE
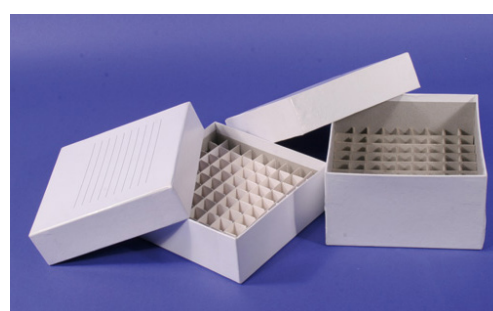
Support rod for canisters

- 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

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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

CRYOWARE

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 Pharmacopeia 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 Pharmacopeia (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.

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