



CATALOGUE


Cryo Bio System was founded in 1987 and is the human division of IMV Technologies, world leader in the reproduction biotechnology market, based in l’Aigle (Normandy, France).

Exclusively dedicated to Life Science and Biodiversity, Cryo Bio System strives to provide scientists and physicians with IMV Technologies’ expertise in the field of cryopreservation of biological samples, with innovative and High Security products for:

- Biorepositories, epidemiological research
- Blood transfusion haemovigilance
- Cell culture and genetic therapy units
- The pharmaceutical industry
- Assisted Reproductive Technologies
- Genomics and proteomics
- Medico-legal storage
- Military medicine
- Biodiversity (animal and plant-based germplasm conservation)


Cryo Bio System currently operates in over 80 countries through four subsidiaries in the USA, India, the Netherlands and China, as well as a network of efficient distributors, focusing on product quality and keeping close to its clients to best meet their requirements.

Cryo Bio System...
High Security, a unique concept




Safety

No risk of cross-contamination between samples, the outside environment (LN2) and the operator.




Biocompatibility

Use of biocompatible, non toxic ionomeric resin, with no plastic agent or by-product.



Traceability

Color code identification and LN2-proof printed labels/jackets (link with sample, patient’s clinical and medical data).



Optimization

Storage in straws or goblets for space optimization.

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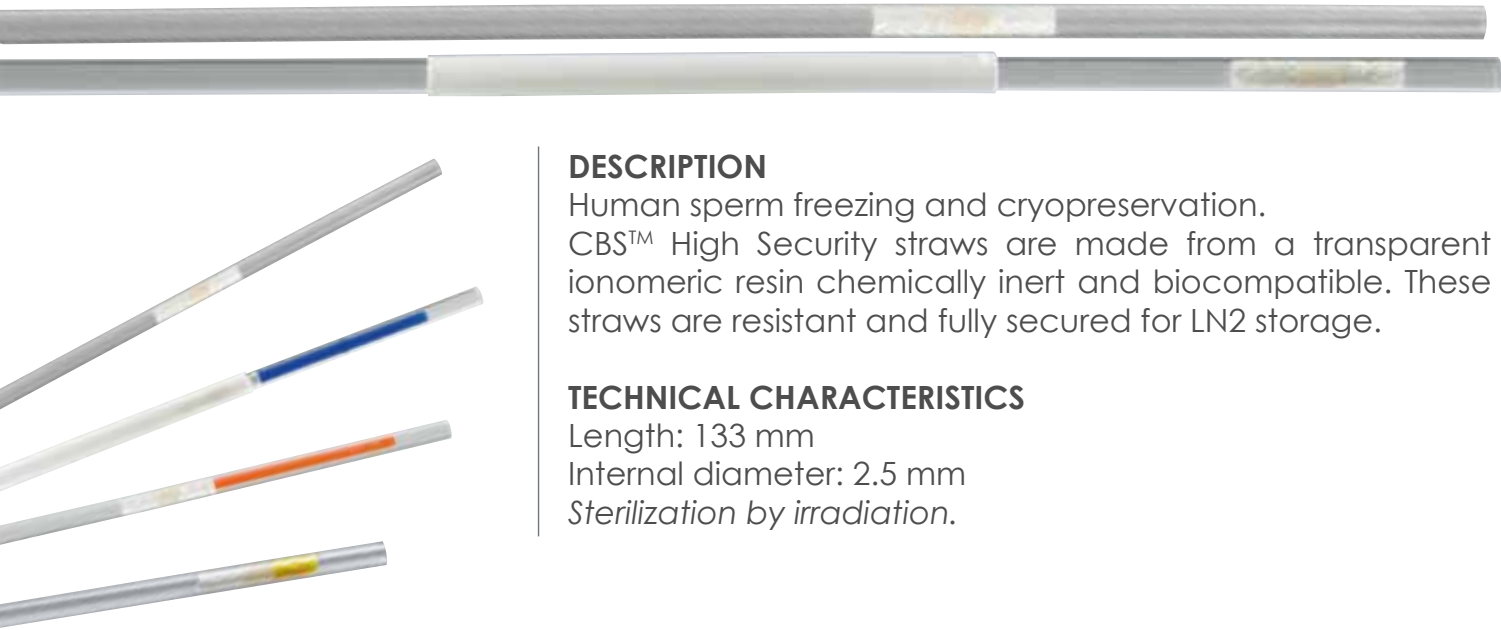


CONSUMABLES

CBS™ High Security sperm straw
CBS™ High Security embryo and sperm straw
CBS™ High Security tissue straw
CBS™ High Security straw (non sterile)
PETG sperm straw
PETG embryo straw
CBS™ High Security Vitrification straw
CBS™ High Security Tube
LEJA slides
Injection, holding and biopsy pipettes

CBS™ High Security sperm straw

CE marked according to directive 93/42/CE
FDA registration



DESCRIPTION
Human sperm freezing and cryopreservation.
CBS™ High Security straws are made from a transparent ionomeric resin chemically inert and biocompatible. These straws are resistant and fully secured for LN2 storage.

TECHNICAL CHARACTERISTICS
Length: 133 mm
Internal diameter: 2.5 mm
Sterilization by irradiation.

Sterile CBS™ High Security sperm straws for use with PACE and MAPI

CBS™ High Security <u>0.3 ml</u> sperm straw colored identification rod and white jacket							75				
Red 017797	●	White 017798	○	Yellow 017799	●	Blue 017800	●	Green 017801	●	Purple 017802	●
018797 CBS™ High Security <u>0.3 ml</u> sperm straw with printed white jacket and injected colored rods (yellow, green, blue, white, red)							75				
014651 CBS™ High Security <u>0.5 ml</u> sperm straw white plug							20				
014650 CBS™ High Security <u>0.5 ml</u> sperm straw white plug							100				
CBS™ High Security <u>0.5 ml</u> sperm straw with colored cotton plug							100				
Red 016584	●	Yellow 016611	●	Green 016612	●	Blue 016613	●	Orange 016614	●	Grey 016615	●

Sterile CBS™ High Security sperm straws for manual use with SYMS and SYMS III

010287	CBS™ High Security <u>0.3 ml</u> sperm straw white plug					20
010288	CBS™ High Security <u>0.3 ml</u> sperm straw white plug					100
014651	CBS™ High Security <u>0.5 ml</u> sperm straw white plug					20
014650	CBS™ High Security <u>0.5 ml</u> sperm straw white plug					100
CBS™ High Security <u>0.5 ml</u> sperm straw with colored cotton plug					100	
Red	Yellow	Green	Blue	Orange	Grey	
016584	016611	016612	016613	016614	016615	

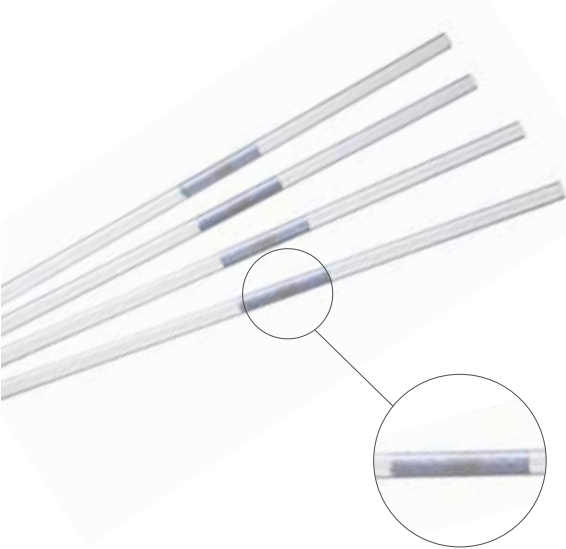
CBS™ High Security embryo and sperm straw

CE marked
FDA 510(k) premarket notification clearance for the USA # K002595



025292 CBS™ High Security embryo and sperm straw with tripartite plug 0.3 ml

20



DESCRIPTION
The CBS™ High Security embryo and sperm straw with braided plug is specifically designed for long-term cryopreservation of human biological samples, including liquid nitrogen. Made of biocompatible materials, it is suited to Assisted Reproduction procedures, and more specifically to embryo and sperm cryopreservation.
Single packaging. Pack of 5 blisters of 4 units.

TECHNICAL CHARACTERISTICS
Length: 133 mm
Internal diameter: 2.5 mm.
Sterilization by irradiation.

30 mm weighted identification rods (for 0.3 ml sperm or embryo and sperm straw)

Yellow	Green	Blue	Orange	White	Red
019021	019022	019023	019024	019025	019026

024856 Sterile filling nozzle for CBS™ High Security straw

The CBS™ filling nozzle ensures a leak-proof environment as it fully isolates the sealing zone from any contact with fluid as the biological sample is drawn in.

10

100



CONSUMABLES



CBS™ High Security straw

NON STERILE

DESCRIPTION

Cryopreservation of biological samples.
CBS™ High Security straws are made from a transparent ionomeric resin chemically inert and biocompatible These straws are resistant and fully secured for LN2 storage.

TECHNICAL CHARACTERISTICS

Length: 133 mm
Internal diameter: 2.5 mm

CBS™ High Security 0.3 ml straw colored identification rod and white jacket 300

Blue	Red	Yellow	White	Green	Purple
021661 ●	021662 ●	022189 ●	022539 ○	022540 ●	022541 ●

CBS™ High Security 0.5 ml straw colored plug and white jacket 300

Grey	Red	Green	Blue	Yellow	Orange	White
019046 ●	019047 ●	019048 ●	019049 ●	019050 ●	019051 ●	019052 ○



ACCESSORIES FOR CBS™ HIGH SECURITY STRAWS (STERILE AND NON STERILE)

015047	Blue emptying rod for CBS™ High Security straws	1000
024856	Sterile filling nozzle for CBS™ High Security straw	100
014175	Permanent black markers	2
016730	Sterile connection tubing for syringe (individually packed)	10
016731	Sterile connection tubing for syringe (packed in units of 5)	5

30 mm weighted identification rods for 0.3 ml straws 10

Yellow	Green	Blue	Orange	White	Red
019021 ●	019022 ●	019023 ●	019024 ●	019025 ○	019026 ●

Outer identification jacket 50

Red	White	Orange	Green	Blue	Yellow	Clear
010272 ●	010273 ○	010274 ●	010275 ●	010276 ●	010277 ●	014939 ○

PETG sperm straw

RESEARCH ONLY

010261	Transparent PETG 0.25 ml sperm straw	100
014550	Transparent PETG 0.5 ml sperm straw	100
007342	Yellow sterile (13 mm) sealing and identification rods	40



DESCRIPTION

Freezing and storing human sperm PETG sperm straws are clear flexible straws made of a copolymer.
•The section which holds semen has a volume of 0.21 ml or 0.47 ml.
•The other section is used as an aspiration zone during filling.

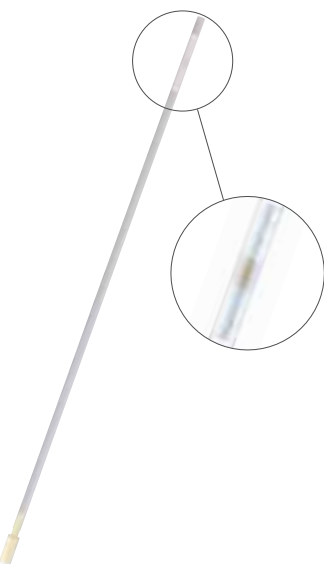
TECHNICAL CHARACTERISTICS

•0.25 ml straw
Length: 133 mm
Internal diameter: 1.6 mm
•0.5 ml straw
Length: 133 mm
Internal diameter: 2.5 mm
Sterilization by irradiation.

PETG embryo straw

RESEARCH ONLY

006433	Sterile clear rigid embryo straw 0.15 mL - 91 mm	100
006578	Sterile clear rigid embryo straw 0.25 mL - 133 mm	100
014102	Sterile clear flexible embryo straw 0.15 mL - 91 mm	100
014103	Sterile clear flexible embryo straw 0.25 mL - 133 mm	100



DESCRIPTION

PETG embryo straws are flexible or rigid clear tubes made of copolymer. The PETG embryo straws are closed at one end by a double-woven cotton plug, enclosing a dose of powder that polymerizes when in contact with liquid.
Blisters of 4 x 5 units.

TECHNICAL CHARACTERISTICS

• 0.15 ml for 91 mm long straws
• 0.25 ml for 133 mm long straws
The internal diameter is 1.6 mm for both models.
Sterilization by irradiation.

The 91 mm straws are closed with 42 mm identification rods and the 133 mm straws are closed with 13 mm identification and sealing rods (p.19)

CONSUMABLES

CBS™ High Security Vitrification straw

Medical
Device
Class IIa

CE marked
FDA 510(k) premarket notification clearance for the USA
K092398 for 4-8 cell and blastocyst stage embryos



DESCRIPTION

Vitrification of embryos

The kit is comprised of 3 parts:

- a transparent High Security Vitrification ionomeric resin straw;
- a capillary tube with a transparent gutter and co-injected colored handling rod;
- a blue insertion device.

Individually packaged. Blister pack of 4 kits.

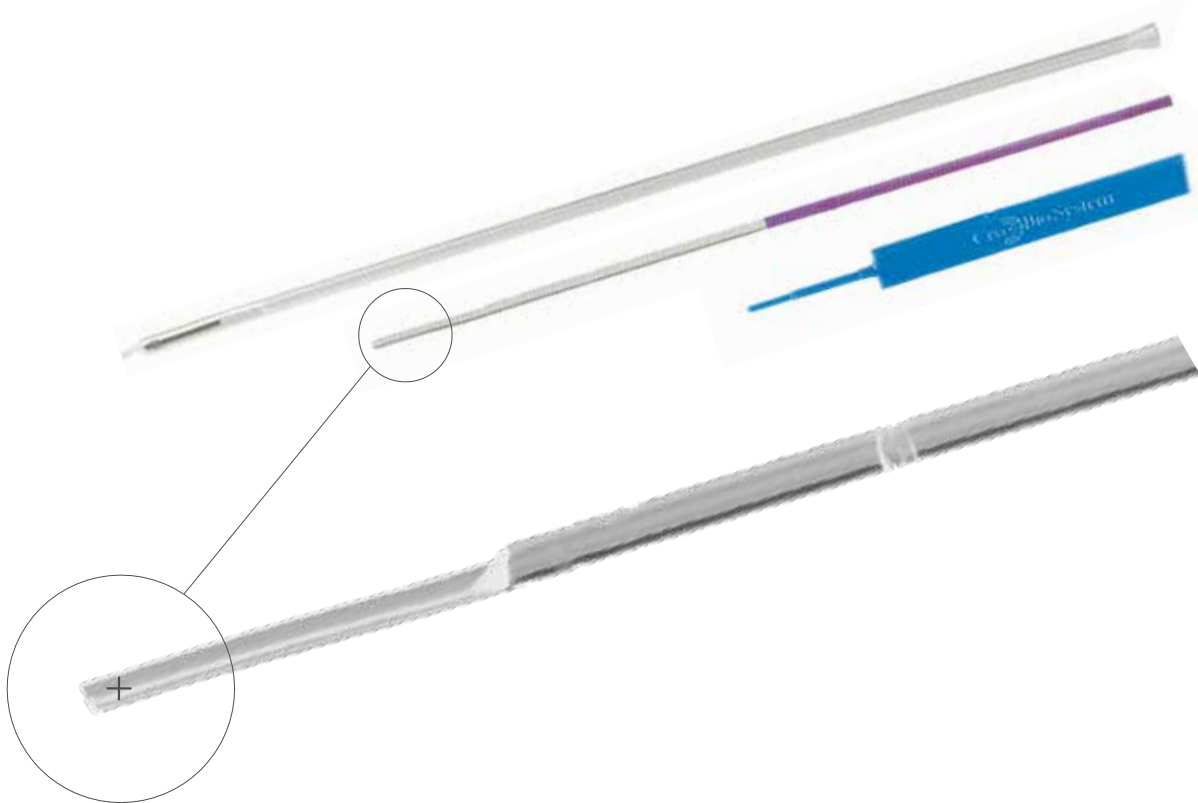
TECHNICAL CHARACTERISTICS

Sterilization by irradiation.



Blister of 4 CBS™ High Security Vitrification straws

Red	White	Yellow	Pink	Blue	Green
025246	025247	025248	025249	025250	025251
●	○	●	●	●	●



022406 Opening tweezers for CBS™ High Security Vitrification straw

027636 Box of 5 opening devices for CBS™ High Security Vitrification straw
027172 Opening set (holder + device) for CBS™ High Security Vitrification straw



DESCRIPTION

The opening device for CBS™ High Security Vitrification straws has been designed exclusively to open CBS™ High Security Vitrification straws. It is an ambidextrous device. It can be held either directly in the hand or using a "holder" (an accessory designed to keep the user further from the liquid nitrogen).

027807 Integral HSV Vitrification Unit



Medical
Device
Class IIa

DESCRIPTION

The INTEGRAL HSV vitrification unit is designed for vitrification, packaging and opening of CBS™ High Security Vitrification straws in the following applications:

- Reproductive Biology Laboratories
- Gamete banks.

For more information: p.36-37

CONSUMABLES

CBS™ High Security Tube

Medical
Device
Class IIa

COMPLIANCE WITH INTERNATIONAL STANDARDS

Compliant with CE standards according to the European Medical Devices Directive 93/42/CE modified 2007/47/CE (Classe IIa).

022252 Bag of 20 sterile CBS™ High Security Tubes

023722 Bag of 50 sterile CBS™ High Security Tubes

022251 Bag of 100 non-sterile CBS™ High Security Tubes



DESCRIPTION

The unique fully secured system for storage in liquid nitrogen.

CBS™ High Security tubes are derived from the CBS™ high security concept designed for optimum sample preservation. Made of biocompatible resin, CBS™ tubes eliminate concerns related to cross-contamination and issues induced by storage in liquid nitrogen.

Once sealed with the SYMS III sealer, the CBS™ High Security tube will be placed in storage boxes and in current storage systems.

TECHNICAL CHARACTERISTICS

Usable working volume: 1.2 mL

Dimensions: 48 mm, Ø 11.8 mm

Sterilization by irradiation.

SCOPE OF APPLICATION

- Preservation of fertility (ovarian and testicular tissue, sperm) for Assisted Reproductive Technologies
- Biological tissue banks for pharmaceutical, medical and scientific, biodiversity research
- Blood banks and blood transfusion centers
- Cell and genetic therapy (clinical phase and therapeutic applications)
- Packaging of vaccines and heat-sensitive drugs

SAFETY

- Full seals eliminate all risk of cross-contamination of the sample and its environment
- Validated as leak-proof and shatter-proof in all cryogenic temperatures including liquid nitrogen phase
- Indestructible under normal conditions of use



TRACEABILITY OPTIONS

- Colored inserts for simple identification in cryogenic environments
- 2D data matrix coded white inserts
- Compatible with cryoresistant labels

COMPATIBILITY

- Standard racks, boxes (9x9 or 10x10), canes
- Manual or automatic filling systems
- Programmable freezers (URL link: Digitcool line)
- Cryogenic storage conditions for use in:
 - o Liquid nitrogen
 - o Vapor phase
 - o Mechanical freezers

024922 SYSO



DESCRIPTION

The SYSO opening device can be used under laminar flow and is designed to open CBS™ High Security tubes with a hot wire.

For more information: p.38

023836 Autoclavable scissors for CBS™ High Security Tubes



CONSUMABLES

LEJA slides

- 026853**
CE marked
SC-10-01-04-B
10 µm 4 wells - 4x25
2 µl / analysis
- 026854**
CE marked
SC-12-01-C
12 µm 2 lateral wells - 4x25
4 µl / analysis
- 026855**
CE marked
SC-20-01-C
20 µm 2 lateral wells - 4x25
6 µl / analysis
- 026354**
CE marked
SC-20-01-02-B
20 µm 2 wells - 4x25
6 µl / analysis
- 026355**
CE marked
SC-20-01-04-B CE
20 µm 4 wells - 4x25
3 µl / analysis
- 026357**
CE marked
SC-100-01-02-A
100 µm 2 high precision wells - 4x25
30 µl / analysis
- 026857**
CE marked
SC-100-01-02-B
100 µm 2 wells - 4x25
30 µl / analysis



DESCRIPTION

High quality disposable counting chambers for sperm analysis.
Due to their special characteristics, Leja slides will both save time and increase the level of accuracy and precision of sperm analysis.
All slides are covered with a special coating to prevent air bubbles and to prevent the sample from bonding to the chamber surface.
The resin and ink are both non toxic. Leja slides have an excellent low limit of quantification and can handle high sperm concentrations.
This has a direct clinical impact: you will be better prepared to determine the thresholds for the various procedures of Assisted Reproduction Technologies (waiting for natural conception, intrauterine insemination, in-vitro fertilization and intracytoplasmic semen injection) and to decide on the best treatment option for a couple.
The high level of accuracy and precision of the Leja slides will allow your results to be compared with scientific data from other laboratories in regards to the relationship between semen parameters (concentration, motility, viscosity) and fertility.

TECHNICAL CHARACTERISTICS

Slides with 2 or 4 chambers
Depth: 10, 12, 20 or 100 microns



Injection, holding and biopsy pipettes
by SUNLIGHT MEDICAL

CE marked

Their unique shape and taper provide for smooth movement of its content.
Individually packed in boxes of 10 units.
Sterilization by irradiation.

INJECTION PIPETTES



- 022166** Injection pipette – 20° angle
- 022167** Injection pipette – 30° angle
- 10
10

DESCRIPTION

Injection pipettes are used to perform intracytoplasmic sperm injection (ICSI).

HOLDING PIPETTES



- 022168** Holding pipette – outer ø 100 µm – 20° angle
- 022169** Holding pipette – outer ø 100 µm – 30° angle
- 022170** Holding pipette – outer ø 120 µm – 20° angle
- 022171** Holding pipette – outer ø 120 µm – 30° angle
- 10
10
10
10

DESCRIPTION

Holding pipettes are designed to hold an oocyte or embryo in position during ICSI and other micromanipulation procedures.

BLASTOMERE BIOPSY PIPETTES



- 028209** Pipette for blastomere biopsy – 20° bevelled angle
- 022172** Pipette for blastomere biopsy – 30° flat angle
- 10
10

DESCRIPTION

Blastomere biopsy pipettes are designed to remove blastomeres from embryos for preimplantation genetic diagnosis (PGD).

	Angle	Inner diameter	Outer diameter	Tip to angle length
Injection	20° / 30°	4.5-5.0 µm	7 µm	0.55 mm
Holding	20° / 30°	15-20 µm	100-119 µm / 120-130 µm	0.65 mm
Blastomere biopsy	20° / 30°	28-32 µm	31-35 µm	0.55 mm



ACCESSORIES

Micro-aspirator
Makler® counting chamber
Identification rods for CBS™ 0.3 ml straws
Identification and obturating rods for PETG straws
2D colored inserts
BMP 21 and BMP 51 printers

Micro-aspirator

014498 Micro-aspirator (comes with two adapters and tubing)



DESCRIPTION
Manual straw filling.
The micro-aspirator is used to manually fill all straws manufactured by Cryo Bio System without any risk of contamination.

014500 Additional adapter and tubing for micro-aspirator

Makler® counting chamber

016261 Makler® counting chamber (complete with cover glass and grid)
016262 Spare cover disc with grid



DESCRIPTION
Quick semen analysis.
Counting chamber and flat disc made of optical glass for sperm count and testing.

Reusable: easy to clean with bleach-free disinfectant.
The 10 micron depth eliminates any blurred area and enables sperm motility.
The specimen is analyzed horizontally. The grid is positioned over the disc. Therefore, there is no need to insert and remove the grid under the microscope lens.

Identification rods for CBS™ 0.3 ml straws

Bag of 30 mm weighted identification rods 10

Yellow	Green	Blue	Orange	White	Red
019021	019022	019023	019024	019025	019026

025292 CBS™ High Security embryo and sperm straw with tripartite plug 0.3 ml 20
024856 Sterile filling nozzle for CBS™ High Security straw 100

Identification and obturating rods for PETG straws

Blister pack of 20 sealing and identification rods (42 mm) for 91 mm PETG straws

Yellow	Violet	Red	Orange	Pink
007437	007438	007440	007442	014484
Blue	Grey	Green	Royal Blue	White
014485	014486	014487	014488	014489

007342 Blister pack of 40 sterile yellow sealing and identification rods (13 mm) for 133 mm PETG straws



ACCESSORIES

2D colored inserts

Bag of 500 non sterile inserts for CBS™ High Security Tubes

White	Blue	Green	Yellow	Red	Pink
024108	024109	024110	024111	024112	024113



026733 Bag of 20 sterile white inserts with 2D data for CBS™ High Security Tubes

024114 Bag of 100 non sterile white inserts with 2D data for CBS™ High Security Tubes

BMP 21 and BMP 51 printers

024498 BMP 21 printer
025446 BMP 51 printer



BMP 21 PRINTER



BMP 51 PRINTER

DESCRIPTION

Identification of CBS™ High Security and CBS™ High Security Vitrification straws for BMP 21 and BMP 51. Additional option of CBS™ tube identification with the BMP 51.

TECHNICAL CHARACTERISTICS

Print method: thermal transfer (lasting, no smearing).
Multiple line printing.

BMP 21 PRINTER

L x W x H: 228.6 x 114.3 x 63.5 mm
Weight: 0.750 kg

BMP 51 PRINTER

L x W x H: 262 x 91 x 152 mm
Weight: 1.2 kg

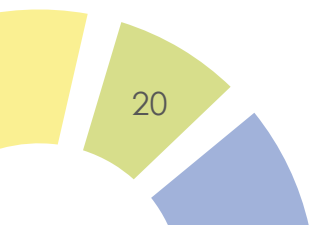
Service temperature: 4°- 49° C
FCC Class A approved (printer)

BMP 21 PRINTER

- 024500 220V adapter for BMP 21 printer
- 024499 BMP 21 printer case
- 024501 Polyester ribbon 9.5mm for BMP 21 printer
- 025453 Polyester ribbon 12.7 mm for BMP 21 printer

BMP 51 PRINTER

- 025450 Self-protected large label for CBS™ tube
- 025451 Self-protected small label for CBS™ tube
- 026433 Polyester ribbon 9.5mm for BMP 51 printer
- 026434 Polyester ribbon 12.7 mm for BMP 51 printer





STORAGE

Visotubes and goblets
Canisters
Identification rods for visotubes
Insulated transport box
Tweezers and forceps

Visotubes and goblets CBS™

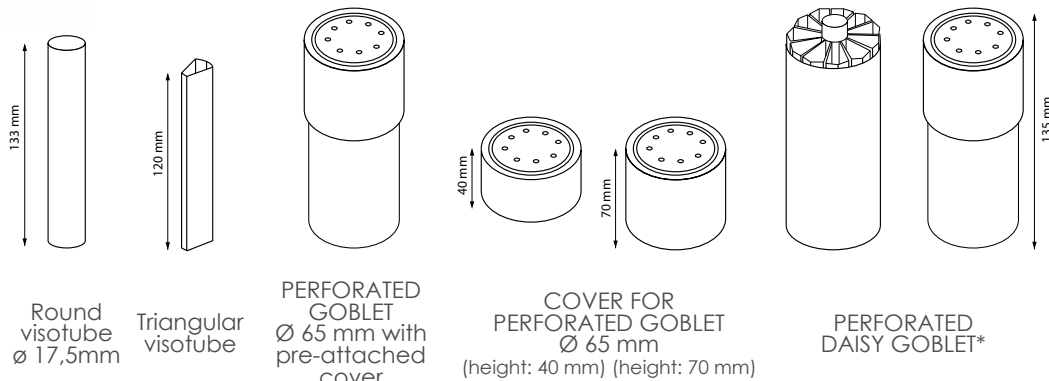


DESCRIPTION

Freezing of biological samples in liquid nitrogen in straws, sorted by color codes. CBS High Security straws are inserted in visotubes, which are housed in colored goblets prior to being stored in the cryopreservation units. Goblets come in 8 different colors and their sub-compartments (visotubes) come in 12 different colors. The Daisy goblet holds 12 visotubes and can hold a maximum of 168 CBS High Security 0.3 and 0.5 mL straws.

TECHNICAL CHARACTERISTICS

Diameter: 65 mm (67 mm with lid)
Goblet height: 117 mm
Total height of the Daisy goblet (with cover): 135 mm
Height of triangular visotubes: 120 mm
Height of round visotubes with 17.5 mm diameter: 133 mm



C O L O R S	Transparent	○	006924	-	021224	021366	006321	015144	015152
	Black	●	-	018153	-	-	-	-	-
	Brown	●	-	018147	-	-	-	-	-
	Red	●	-	018146	021228	-	-	015146	015154
	Green	●	-	018145	021226	-	-	015147	015155
	Blue	●	-	018148	021225	-	-	015151	015159
	Grey	●	-	018144	026948	-	-	018141	018142
	Violet	●	-	018152	021229	-	-	015150	015158
	Yellow	●	-	018143	021227	-	-	015148	015156
	Pink	●	-	018149	-	-	-	-	-
	Orange	●	-	018150	-	-	-	-	-
	Pistachio	●	-	018151	026949	-	-	015149	015157
PACKAGING			100	100	10	50	10	1	5
C A P A C I T Y	PETG 0.25 mL straw		55	45	820	-	-	540	540
	PETG 0.5 mL straw		20	20	365	-	-	240	240
	HSV CBS™ High Security straw		20	20	365	-	-	240	240
	High Security CBS™ straw		14	14	225	-	-	168	168
* With 11 coloured triangular visciballs									

* With 11 coloured triangular visotubes, 1 clear round visotube and 1 clear cover

NB: The perforated covers are designed for exclusive use with the perforated daisy goblets in Biobanking applications for long-term storage without daily handling.

Visotubes and goblets CBS™



DESCRIPTION

Freezing and storage of biological materials in straws. Arrangement using color coding of straws prior to storage in liquid nitrogen.

- Standard goblet Ø 35 mm
Diameter: 35 mm
Height: 122 mm
- Standard goblet Ø 65 mm
Diameter: 65 mm
Height: 117 mm
- Polygonal, hexagonal and round visotubes
Height: 120 mm

All visotubes are also available in bags of 300 units (in identical colors and diameters).

C O L O R S	White	Blue	Green	Yellow	Orange	Red	Violet	Pistachio
	020470	020472	020482	020483	020484	020485	022141	-
C A P A C I T Y	10	10	10	10	10	10	10	1
	PETG straw 0.25 mL	PETG straw 0.5 mL	HSV CBS™ High Security straw	CBS™ High Security straw	In a goblet ø 35 mm	In a goblet ø 65 mm		
	30	15	14	8	4	15	60	820
	90	36	6	10	1	10	37	365
	7	2	3	7	3	15	60	-
	10	5	6	4	10	10	37	-
	14	5	6	7	8	15	31	-
	22	8	10	7	5	15	21	-
	27	10	12	7	5	15	19	-
	200	94	-	75	-	-	-	-
	820	365	-	225	-	-	-	-

Canisters



DESCRIPTION

Canisters are cylindrical racks for keeping goblets in liquid nitrogen or nitrogen vapors. The goblet and canister storage concept is compatible with all types of nitrogen and electric freezers. Five canister lengths are available, with a capacity of between 2 and 6 goblets. A colored flag can be placed on the lifter (a bent metal rod to lift the stack of goblets) for quick identification of each canister. Canisters are stored in the nitrogen freezer before filling it with liquid nitrogen. Goblets are stacked and removed one by one with the lifter. Goblets must be handled in the cold environment of the neck of the nitrogen freezer to ensure even sample temperature.

TECHNICAL CHARACTERISTICS

Diameter: 70 mm

Canister with handle for standard goblets ø 65 mm without cover

1

2-shelf	3-shelf	4-shelf	5-shelf	6-shelf
007147	007148	007149	007150	007151

Canister with handle and white flag for Daisy goblets

1

2-shelf	3-shelf	4-shelf	5-shelf	6-shelf
008644	008645	008646	007198	007199

Plastic handle (colored flag for handle identification)

10

White 007328 ○	Yellow 015693 ●	Salmon 015694 ●	Pink 015695 ●	Dark Green 015696 ●
Turquoise 015697 ●	Orange 015698 ●	Violet 015699 ●	Grey 015706 ●	

014175	Permanent black markers	2
022112	Rack for 24 daisy goblets	1
021998	Rack for 32 daisy goblets	1
007136	Work basket 3 places for 65 mm goblets	1



Identification rods for visotubes



DESCRIPTION

These ID rods are a little bit longer than straws and are used to identify individual visotubes.

Medium identification rods for visotubes

100

Yellow 006331 ●	White 006762 ○	Red 006763 ●	Grey 006774 ●	Orange 006775 ●	Pink 006876 ●
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Mini identification rods for visotubes

100

White 006330 ○	Yellow 006332 ●	Red 006777 ●	Pink 006779 ●	Orange 006786 ●	Grey 006787 ●
Blue 006782 ●	Pistachio 006783 ●	Turquoise 023872 ●	Mauve 023871 ●	Mastic 023870 ○	

Insulated transport box

015937 Bag of 5 insulated boxes



DESCRIPTION

Sperm transport prepared for intrauterine insemination. HDPE box with a precut polyurethane foam to hold a tube. These dimensions are compatible with all round or cone-shaped 5-15 mL culture tubes.

TECHNICAL CHARACTERISTICS

Length: 120 mm
Diameter: 65 mm

Tweezers and forceps

026923	Brucelle tweezers - 14 cm
026924	Medium forceps - 23 cm
026925	Long forceps - 104 cm

STORAGE

EQUIPMENT

Nano-Digitcool
Controlled-rate freezers, Digitcool range
Craft™ pump
SYMS
SYMS III
MAPI
PACE
Integral HSV
SYSO

Nano-Digitcool

CE marked

025680 Nano-Digitcool



DESCRIPTION

The compact controlled rate freezer solution for daily use for all cryopreservation applications. Digitcool freezers are used for controlled-rate freezing of biological samples (plasma, blood cells, tissue, gametes, etc.). Stainless steel Digitcool freezers are easy to maintain and disinfect. They are easy to set up and allow the user to optimally control the various protocols.

- Vertical nitrogen flow with vaporization
- Standalone operation available (emergency mode without IT)
- Traceability: CryoBioSoft software (aligned CFR21)
- Freezing of bags, straws, tubes, etc.
- Display of freezing phases, results and archives

TECHNICAL CHARACTERISTICS

Weight: 55 Kg
Dimensions: 772 x 475 x 472mm
Chamber dimensions (inside): 238 x 178 x 200mm
Volume: 11.5 L
Capacity:

- 33 CBS™ High Security straws
- 192 CBS™ High Security Tubes
- 15 DF200 bags

Power: 1200 W
Voltage: 220 V / 50Hz / 8 A



- 025433 96 CBS™ tubes rack for Nano-Digitcool
- 024572 Straws rack for Nano-Digitcool
- 025327 DF 200 bags rack for Nano-Digitcool



Controlled-rate freezers, Digitcool range

- 007209 Digitcool
- 007210 Mini-Digitcool
- 007208 Micro-Digitcool
- 025680 Nano-Digitcool



DESCRIPTION

Digitcool freezers are used for controlled-rate freezing of biological samples (plasma, blood cells, tissue, gametes, etc.). Stainless steel Digitcool freezers are easy to maintain and disinfect. They are easy to set up and allow the user to optimally control the various protocols.

ADVANTAGES

- Temperature range: +50°C to -150°C
- Cooling rate: 0.1 to 60°C/min
- Automatic reheating, drying and return to room temperature at the end of the cycle
- Programmer/regulator, hot/cold regulator and plug-in
- Temperature measured by PT 100 ohm (chamber and product)
- Digital temperature display (chamber, program)
- Can be connected to a computer terminal (portable or desktop) with control using the Cryobiosoft software package
- Regulation based on “chamber” temperature
- Liquid nitrogen dispensed through a self pressurized reservoir with a 60 or 120 liter capacity (with minimum pressure of 1 bar)

	Digitcool	Mini-Digitcool	Micro-Digitcool	Nano-Digitcool
External dimension	1170x800x1000mm	770x510x730mm	600x380x520mm	722x475x472mm
Weight	130 kg	58 kg	38 kg	55 kg
Internal dimension	960x470x320mm	640x320x420mm	490x325x230mm	238x178x200mm
Volume	150 L	90 L	26 L	11.5 L
Sample capacity	3 000 CBS™ straws 2304 CBS™ tubes 32 DF200 bags / 32 DF700 bags	1 392 CBS™ straws 576 CBS™ tubes 32 DF200 bags / 16 DF700 bags	240 CBS™ straws 192 CBS™ tubes 15 DF200 bags / 9 DF700 bags	33 CBS™ straws 192 CBS™ tubes 15 DF200 bags
Power	2500 W	2000 W	1000 W	1200 W
Voltage	220V/50Hz/16A	220V/50Hz/10A	220V/50Hz/6A	220V/50Hz/6A

- 025433 96 CBS™ tubes rack for Digitcool range
- 025109 9 pouches rack 150 mL for Micro-Digitcool

For the other racks and accessories of this range, please contact us.

Craft™ pump

005553 Craft™ pump - Rocket vacuum pump (comes with accessories)



DESCRIPTION
Aspiration of follicular fluid and oocytes.
The Craft™ pump is specially designed for gentle and controlled aspiration, at a preset negative pressure, of oocytes by follicular aspiration.

TECHNICAL CHARACTERISTICS
Dimensions (L x W x H): 20 x 14 x 12 cm
Weight: 3.2 kg.
Pressure: 0 - 400 mm Hg

- 015621 Craft™ pump foot switch
- 006553 Craft™ pump tubing
- 018204 Craft™ pump tank
- 018268 Craft™ pump tank plug
- 019270 Luer-Lock connector for Craft™ pump tubing

SYMS

016399 SYMS sealer

NEW VERSION



DESCRIPTION
Manual sealer for CBS™ High Security straws.
Cryo Bio System has developed a sealer for CBS™ High Security straws in ionomeric resin. The sealer is connected to the mains and operated by a push-button or foot switch as desired.

TECHNICAL CHARACTERISTICS
Dimensions (L x W x H): 230 x 220 x 170 mm
Weight: 6 kg
Power supply : 220 V / 60 or 50 Hz

009848 SYMS spare parts kit (Teflon, fuse...)

SYMS III

CE marked

025547 SYMS III sealer



DESCRIPTION
Sealer for CBS™ High Security straws, tubes and vitrification straws.
The SYMS III sealer is designed to heat seal CBS™ High Security 0.3 ml, 0.5 ml and CBS™ High Security Vitrification straws, and the CBS™ High Security tube, for optimal cryopreservation of biological samples.

TECHNICAL CHARACTERISTICS
Dimensions (L x W x H): 335 x 250 x 105 mm
Weight: 3 kg
Power supply: 110 or 220 V / 60 or 50 Hz

- FEATURES**
- Multilingual interface (French, English, Spain and Chinese) + 4 optional languages
 - Color touch screen compatible with the use of laboratory gloves
 - Machine cycle display: pre-heating, ready status and sealing in progress
 - Two sealing modes: automatic detection or operator-controlled via the touch screen
 - Fault signal with messages and alarms
 - Display and tracking of maintenance modes
 - Easy to clean and service.



026550 Set of sealing jaws for SYMS III

EQUIPMENT

MAPI

007218 MAPI



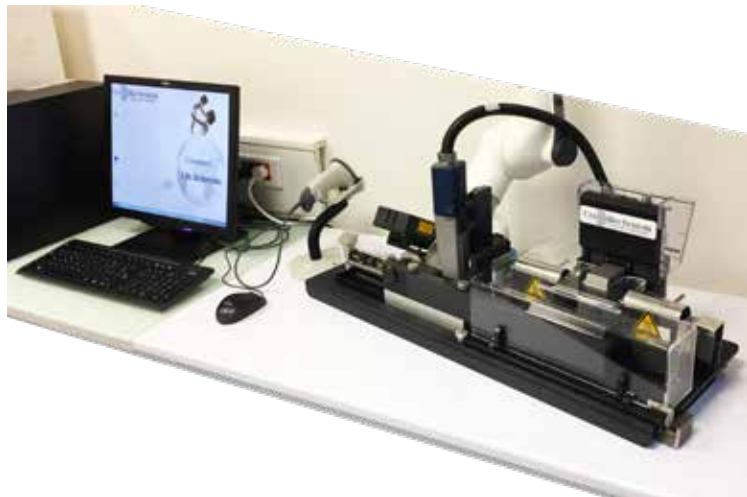
DESCRIPTION
Automatic biological sample filling and identification system for CBS High Security straws.


From a primary tube, MAPI automatically fills, seals, prints out and validates the identification of CBS 0.3 or 0.5 mL straws (bar code or alphanumerical data).

MAPI features a filling robot, a control unit, a special liquid nitrogen ink-jet type printer and a PC with the MAPI pilot software. The robot is placed on a special lab bench at ergonomical height.

TECHNICAL CHARACTERISTICS

- MAPI
Dimensions (LxWxH): 760 x 260 x 470 mm
Weight: 35 kg
 - Worktop
Dimensions (LxWxH): 1200 x 600 x 900 mm
Height with machine: 1260 mm
Weight with machine: 102 kg
 - Control unit
Dimensions (LxWxH): 430 x 380 x 190 mm
Weight: 14 kg
 - Domino printer
Dimensions (LxWxH): 650 x 450 x 375 mm
Weight: 20 kg
- Active printer vapor extractor duct, not included (diameter: 80 mm)
- Power supply:
110 or 220 V / 60 or 50 Hz



007454	Sterile CBS™ injection tubing (5 x 10)		50
018620	Box of long sterile CBS™ injection tubing		25
007451	Sterile CBS™ aspiration tubing (5 x 10)		50
014623	Non sterile injection tubing		200
018276	Non sterile long blue CBS™ injection tubing		200
014621	Non sterile aspiration tubing		200

PACE

018451 PACE 220 V / 50 Hz
018450 PACE 110 V / 60 Hz



DESCRIPTION
Semi-automatic system for filling biological samples into CBS™ High Security straws.

From a sample primary tube, PACE fills CBS™ High Security straws and automatically seals both ends of CBS™ High Security 0.3 or 0.5 ml straws, which can be pre-identified.


PACE is the ideal CBS™ robot for medium to large-scale projects with preset archiving protocols. PACE is compatible with CBS™ High Security straws - pre-printed or not - with bar code or alphanumerical code.

The system comprises a filling and sealing unit with control unit.

TECHNICAL CHARACTERISTICS

- PACE
Dimensions (L x W x H): 380 x 300 x 370 mm
Weight: 25 kg
 - Control Unit
Dimensions (L x W x H) : 410 x 365 x 155 mm
Weight: 14 kg
- Power supply:
110 or 220 V / 60 or 50 Hz



007454	Sterile CBS™ injection tubing (5 x 10)		50
018620	Box of long sterile CBS™ injection tubing		25
007451	Sterile CBS™ aspiration tubing (5 x 10)		50
014623	Non sterile injection tubing		200
018276	Non sterile long blue CBS™ injection tubing		200
014621	Non sterile aspiration tubing		200

EQUIPMENT

Integral HSV

027807 Integral HSV Vitrification unit

Medical
Device
Class IIa



DESCRIPTION

The INTEGRAL HSV vitrification unit is designed for vitrification, packaging and opening of CBS High Security straws in Reproductive Biology Laboratories.

TECHNICAL CHARACTERISTICS

Width: 283 mm
Length: 487 mm
Height: 265 mm with cover, 222 mm without
Chamber volume: 5L
Weight : 5 kg



022406 Opening tweezers for CBS™ High Security Vitrification straw

027636 Box of 5 opening devices for CBS™ High Security Vitrification straw
027172 Opening set (holder + device) for CBS™ High Security Vitrification straw

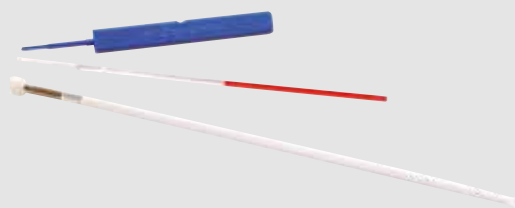


DESCRIPTION

The opening device for CBS™ High Security Vitrification straws has been designed exclusively to open CBS™ High Security Vitrification straws. It is an ambidextrous device. It can be held either directly in the hand or using a "holder" (an accessory designed to keep the user further from the liquid nitrogen)

Blister of 4 CBS™ High Security Vitrification straws

Red 025246 ● White 025247 ○ Yellow 025248 ● Pink 025249 ● Blue 025250 ● Green 025251 ●



DESCRIPTION

The High Security Vitrification straw is made of ionomeric resin, a capillary tube with a clear runner, co-injected with its colored handling rod, and a blue insertion device.

For more information: p. 10-11

HIGH SECURITY VITRIFICATION

Integral HSV

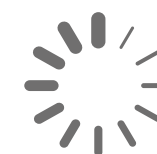


EQUIPMENT



SECURITY

Our vitrification bath offers more security for the user with a lower risk of nitrogen burns. It also offers more security for the sample by offering an uninterrupted cold chain.



NEW FEATURE

The Integral HSV offers a new vitrification feature: straw pre-cooling, whilst ensuring the cold chain is respected throughout the operations.



CENTRALIZATION

All the actions are carried out in the bath: pre-cooling, vitrification, storage in visotubes and goblets and straw opening.

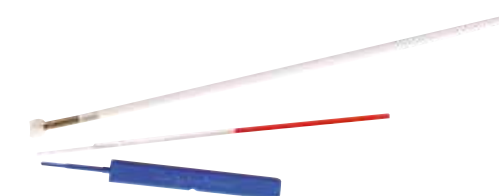


USABILITY

The vitrification bath allows more mobility within the laboratory. It is easily disassembled and can be cleaned for optimum hygiene.

GAIN OF 50.7 % OF THE COOLING PHASE VELOCITY*
with the use of our High Security Vitrification straws

*Tests performed internally, available upon request





DESCRIPTION

Automatic CBS High Security tube opening device.

The SYSO opening device can be used under laminar flow and is designed to open CBS High Security tubes with a hot wire.

- The carousel can hold up to 6 CBS High Security tubes (opening individually or in succession).
- User-friendly touch screen
- 8 languages available
- The wire is systematically sterilized by pyrolysis after each tube is opened.

TECHNICAL CHARACTERISTICS

Dimensions (L x W x H): 358 x 275 x 157 mm

Weight: 2.5 kg

Power supply: 110 or 220 V / 60 or 50 Hz

FEATURES

The SYSO opening machine is a worktop device for lab benches which can be used under laminar flow. It uses a hot wire to open CBS™ High Security Tubes and has applications which include:

- Epidemiological research departments
- Biobanks
- Serum banks
- Cellular and gene therapy units
- Vaccine-manufacturing pharmaceutical companies (living cells)
- Gene banks (animal, plant, microbiological)
- Reproductive biology laboratories
- Gamete and gonadal tissue banks



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