

CBS™ High Security tube

Medical Device Class IIa



Application fields

- Biorepositories for scientific, medical and pharmaceutical research
- Blood banks and blood transfusion centers
- Cell and genetic therapy units
- Vaccines and thermosensitive drug packaging
- Sperm banks, ovarian tissue banks
- Laboratories and clinics specialized in Assisted Reproductive Technologies.



Technical features

- Useful volume: 1.2 mL
- Dimensions: 48 mm (1.9"), Ø 11.8 mm (0.46")
- Weight: 1.8 g (0.06 oz)
- Material: cryogenic grade ionomeric resin
- Usage temperature range: from +40°C down to cryogenic temperature -196°C
- Sterility: lot certified sterile SAL 10⁻⁶, radiation sterilized
- DNase and RNase free
- Endotoxin-free
- MEA tested per batch
- MAT tested
- Liquid nitrogen: liquid and vapor phase validated
- 2D data matrix capacity: numeric 10
- 2D data matrix symbol size: 12 x 12 (row x column).



International standards compliance

CE compliant to the European Medical Devices Directive 93/42/CE modified 2007/47/CE (Class IIa).

Your distributor ?
www.cryobiosystem-imv.com



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CBS™ High Security tube

The unique fully secured system
for storage in liquid nitrogen

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Edizione 01/2017 - CBS 1 (651314) 2 - Non ordered well pictures and technical specifications.
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Connected to... LIFE SCIENCES

 **Cryo Bio System**
Groupe I.M.V. Technologies

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From the original CBS™ High Security straw...



...to the CBS™ High Security tube

Maintaining **sample integrity** during cryopreservation is a key consideration for research success, today and for the future.

Since its founding, Cryo Bio System has been committed to developing products which help facilitate **the highest quality and security of biological samples** during cryopreservation.

The CBS™ High Security straw concept includes using a cryoresistant resin which can be fully sealed prior to being introduced to cryogenic storage conditions. This concept has been extended to include cryogenic vial volumes with the new CBS High Security tube.

The new CBS™ High Security tube **eliminates concerns related to cross-contamination** and sample degradation related to oxidation and evaporation.

Once sealed, the CBS™ High Security tube can **be stored in widely available storage boxes** and current storage systems. The High security resin material is compatible with cryogenic storage temperatures from -80°C to LN2.



Easy to seal

- Automatic: SYMS III®



Easy to open

- Automatic: SYSO™



- Manual: autoclavable scissors



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Security

- Full seals eliminate risk of cross-contamination of the specimen or its environment
- Validated as leak-proof and shatter-proof in all cryogenic temperatures including temperatures as low as LN2
- Indestructible under normal conditions of use.



Traceability

- Colored inserts for simple identification in cryogenic environments
- RFID cryoresistant chips integrable in inserts
- 2D data matrix coded inserts
- Compatible with cryoresistant labels.



Compatibility

- Standard racks, boxes, canes
- Manual and automated filling systems
- Controlled-rate freezers
- Cryogenic storage containers for use in:
 - liquid nitrogen
 - vapor phase
 - mechanical freezers.



Quality cryopreservation

- All CBS™ containers are developed to **optimize cryopreservation** of valuable samples
- CBS™ High Security tubes benefit from the CBS™ High Security straw concept **expertise in materials and manufacturing**
- Thermal seal of CBS™ containers enables **direct and complete immersion** in liquid nitrogen
- **Varied identification solutions** without impairing the quality of the samples through temperature changes.

