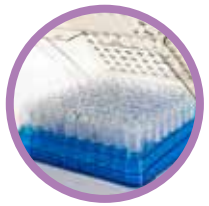
CBS™ HIGH SECURITY TUBES

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).

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Cryo Bio System

CBS™ HIGH SECURITY TUBES

The unique fully secured system for storage in liquid nitrogen

Medical Device Class IIa

CBS™ HIGH SECURITY TUBES

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 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 -196°C.

Easy to seal

- Automatic: SYMS III

Easy to open

- Automatic: SYSO

- Manual : autoclavable scissors

CBS™ HIGH SECURITY TUBES

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
- 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.

SAFETY **BIOCOMPATIBILITY** **TRACEABILITY** **OPTIMIZATION**