

<b>Product Name:</b>	<b>3D Barcode Cryogenic Vial</b>
<b>Product Application:</b>	<p><b>Ideal for cryopreservation of cells and other samples.</b></p> <p><b>The lowest temperature can withstand -196°C (with screw cap). All our polypropylene pipes are suitable for low temperature storage, except for liquid nitrogen.</b></p> <p><b>Three-code-in-one (digital code, barcode, QR code) can realize multi-code tracking, and it can support the traceability of samples and data sharing among multiple users, laboratories and automation.</b></p>
<b>Product Materials:</b>	<p><b>PP (body) + high density polyethylene (HDPE)(cap)</b></p> <p><i>Meets USP, Class VI standards</i></p>
<b>product Specifications:</b>	<p>Temperature range: stored at room temperature</p> <p>Shelf life: 5 Years after date of production ( ensure package is in good )</p>
<b>Sterilization:</b>	<p><b>Yes.</b></p> <p>Sterilized by E-beam, Sterility Assurance Level: SAL=10<sup>-6</sup>. The product has been irradiated and dosimetrically released based on ANSI/AAMI/ISO 11137</p>
<b>Pyrogens:</b>	Non-Pyrogenic
<b>RNase/DNase Testing:</b>	DNase/RNase free
<b>BSE/TSE:</b>	These products are deemed animal free.
<b>Performance Testing:</b>	<p>Each manufacturing lot is sampled and tested in accordance with standard operating procedures.</p> <p>Appearance inspection: qualified                      Sealing test: qualified</p> <p>Freeze testing: qualified                                      Packaging inspection: qualified</p>
<b>Features:</b>	<p><b>Three-code-in-one (digital code, barcode, QR code):</b></p> <ol style="list-style-type: none"> <li>The product meets the SBS standard and provides an effective safety guarantee and management for biological sample libraries and other warehouses of various chemicals and biological products stored at low temperatures, making the warehousing and ex-warehousing of samples more convenient and faster.</li> <li>The vial has laser-etched international standard DATAMATRIX 2D code at the bottom.</li> <li>The barcode and digital code at the side are anti-fading, anti-deforming, wear proof</li> </ol>

and resist DMSO and other organic solvents, 100% clear and readable.

4. it can support the traceability of samples and data sharing among multiple users, laboratories and automation.

**Material Characteristics:**

1. The vial body is made of medical-grade cryogenic polypropylene (PP), which meets USP Class-6 standards and the vial cap is made of high density polyethylene (HDPE). it is recommended that the vial be used in the gas phase above -196 °C liquid nitrogen
2. Withstand temperature range: Approx.-196°C to 121°C.
3. DNase/RNase free, non-endotoxin.
4. Electron beam sterilization, SAL = 10<sup>-6</sup>.
5. Two-color tube body integral injection molding

**NEST Advantages: Testing and control in strict accordance with quality requirements**

1. Low temperature test: -80°C cryogenic freezing test, -196°C liquid nitrogen test.
2. Sealing test
3. Sterility test
4. Endotoxin test, DNA and RNA enzyme test.

**Series Product Introduction:**

**Two types of designs are available**

**1. 3D Barcode Cryogenic Vial, SBS Format:**

The product meets the SBS standard and provides an effective safety guarantee and management for biological sample libraries and other warehouses of various chemicals and biological products stored at low temperatures.

**2. 3D Barcode 1.8 mL Cryogenic Vial:**

The size of the vial body is suitable for the common freezing boxes in the market, which is convenient for customers to use.

**Characteristics of External Thread, Double Secure Cap**

- Excellent sealing performance: permanent reversal prevention.
- High storage safety: the inside forms a closed and isolated space separated from the outside without leakage, favorable for storage and transportation.
- Memory of use history: the middle cover will be punctured when taking sample out, that is, leave a use mark. This function is to ensure the original fidelity of the sample.
- Convenient sampling without contamination: the soft rubber sealing layer can be punctured with a pipette tip or a syringe needle. The outer cover won't be contaminated by the sample, ensuring safety of the personnel and environment.

**Precautions:**

1. After the cryogenic vial is taken out of the liquid nitrogen, its bottom should be wiped with a dry towel, so that the QR code can be better identified;
2. The freezing storage sample size should not exceed the maximum working volume required by the cryogenic vial;

	<ol style="list-style-type: none"> <li>During the freezing storage, the vial cap must be tightened, to prevent liquid nitrogen from entering during the freezing process;</li> <li>Before the cryogenic vial is taken out of the liquid nitrogen, proper protective measures should be taken first, to avoid causing safety problems in the laboratory.</li> </ol>
<b>Warning</b>	<ol style="list-style-type: none"> <li>Do not use cryogenic vials for storage in the liquid phase of liquid nitrogen. Only store vials in the vapor phase above the liquefied gas.</li> <li>Always use appropriate safety equipment when removing vials from cryogenic storage.</li> </ol>

## Product Range

### 3D Barcode Cryogenic Vial, SBS Format

Cat. No.	Product Description	/Pack	/Case
612041	3D Barcode 1.9mL Cryogenic Vial, SBS Format, Compatible with Brooks System, Self-Standing, External Thread, Caps on, Sterile	48	480
612047	3D Barcode 1.9mL Cryogenic Vial, SBS Format, Compatible with Brooks System, Self-Standing, External Thread, Caps Separated, Sterile	48 Vials/Pk 48 Caps/Pk	480
614041	3D Barcode 4.0mL Cryogenic Vial, SBS Format, Compatible with Brooks System, Self-Standing, External Thread, Caps on, Sterile	48	480
614047	3D Barcode 4.0 mL Cryogenic Vial, SBS Format, Compatible with Brooks System, Self-Standing, External Thread, Caps Separated, Sterile	48 Vials/Pk 48 Caps/Pk	480
612051	3D Barcode 1.9 mL Cryogenic Vial, SBS Format, Self-Standing, External Thread, Racked, Sterile	48	480
614051	3D Barcode 4.0 mL Cryogenic Vial, SBS Format, Self-Standing, External Thread, Racked, Sterile	48	480

### 3D Barcode 1.8 mL Cryogenic Vial

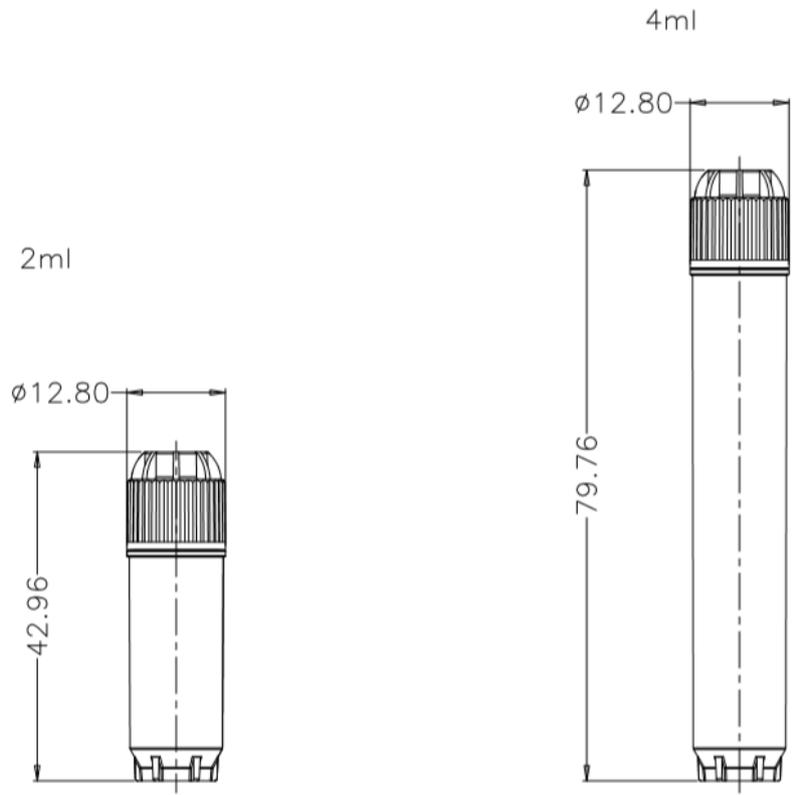
Cat. No.	Product Description	/Pack	/Case
627102	3D Barcode 1.8 mL Cryogenic Vial, Self-Standing, 10*10 Racked, External Thread, Double Secure Cap	100	1000
627002	3D Barcode 1.8 mL Cryogenic Vial, Self-Standing, 10*10 Racked, External Thread	100	1000
627101	3D Barcode 1.8 mL Cryogenic Vial, Self-Standing, Bulk, External Thread, Double Secure Cap	50	2000
627001	3D Barcode 1.8 mL Cryogenic Vial, Self-Standing, Bulk, External Thread	50	2000

## Technical Drawing

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 NEST scientific 株式会社 (Yokohama, Japan)  
 NEST Scientific Europe B.V (Netherlands)  
 Nest Scientific (MENA) FZE (Sharjah, United Arab Emirates)

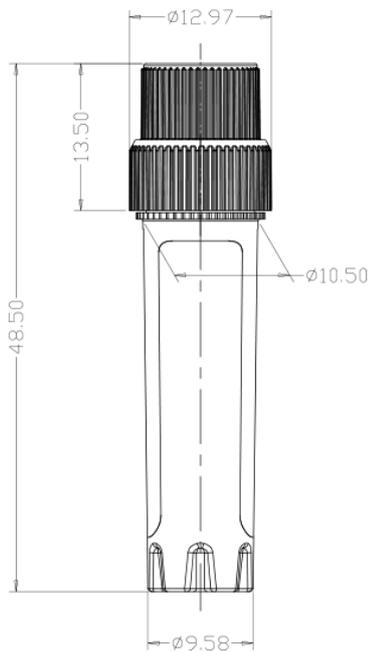
3D Barcode Cryogenic Vial



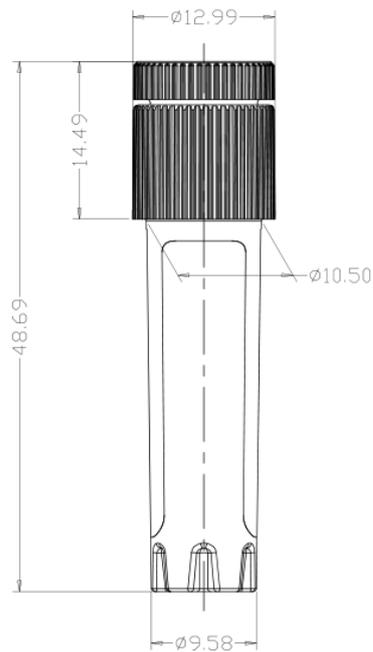
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3D Barcode 1.8 mL Cryogenic Vial



External Thread



External Thread, Double Secure Cap

Product Picture

3D Barcode 1.8 mL Cryogenic Vial



External Thread



Double Cap With Lock

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