2D-Coded Tubes, Internal Thread

1.0ml 2D-coded Tube, 48-format, Internal Thread

- Ideal for cryogenic sample storage in gas phase liquid nitrogen
- 2D code on the tube base
- Stackable in an SBS format rack
- Automation friendly

65-7503-01 | 1.0ml 2D-coded Tube, 48-format, Internal Thread, Capped

Overview

The 1.0ml 2D-Coded Tube, 48-format, Internal Thread is ideal for cryogenic sample storage in gas phase liquid nitrogen. It features a 2D code on the tube base, stackable in an SBS format rack and is automation friendly.

Key Features

- **Secure Sample Storage & Tracking**
  - Permanent 2D code laser-etched in high-contrast on the tube base
  - Leak tested to ensure sample security
  - Azenta Life Sciences 2D codes can be scanned and decoded without removing tubes from storage racks, enabling data to be associated with individual tubes
  - Barcode ensures a permanent link between sample and data
  - Automation friendly tubes ensure compatibility with selected tube capper/decappers to automatically remove and recap screw caps from racked tubes
  - TwistLock: prevents tubes rotating within the rack to enable automated capping and de-capping of screw caps; provided as standard with the option available to remove
- **Capping Options**

  Screw caps

- Automation-friendly Internal-thread screw cap with silicon gasket

Specifications

Parameter	1.0ml 2D-coded Tube, 48-format, Internal Thread
Tube height	32.0mm
Tube height with cap	41.8mm
Inner diameter	10.6mm
Outer diameter with cap	12.6mm
Center to center	13.5mm
Minimum temperature	-196°C

Ordering Information

Use these part numbers to request a quote, a sample or to contact an expert:

Part number	Description
1.0ml 2D-coded Tube, 48-format, Internal Thread	
65-7503-01	2D code on base, capped, bulk; 100 tubes
Compatible racks	
65-9452	**48-format Rack, 2 Piece Rack Base**, open bottom; 10 racks
65-9458	**48-format Rack, 1 Piece Rack Base**, open bottom; 10 racks
65-1700	**9x9 Cryo Storage Rack**; 10 racks
65-1701	**10x10 Cryo Storage Rack**; 10 racks
Compatible caps	

65-7552-01	**Automation Friendly Internal Thread Cap**, orange, 48-format, bulk; 1,000 caps

1.8ml 2D-coded Tube, 48-format, Internal Thread

65-7502-01 | 1.8ml 2D-coded Tube, 48-format, Internal Thread, Capped

Azenta Life Sciences 2D coded tubes provide a lifelong and secure chain of custody for samples in biobanks, compound libraries and a broad range of biological and chemical stores, including cryogenic storage

- Code readable without removing tubes from racks
- Suitable for cryogenic storage
- Made from high-quality virgin PP
- Available bulk
- Sealable with auto friendly screw caps

Overview

Designed and developed with broad compatibility in mind, the tubes perform without compromise in conjunction with automated barcode reading, capping and sample management systems from Azenta Life Sciences and all other industry-recognized manufacturers. Provides a lifelong and secure chain of custody for samples in biobanks, compound libraries and a broad range of biological and chemical stores, including cryogenic storage.

Each tube carries a unique and permanent high-contrast 2D code tube identifier on the base of the tube readable in frost or condensation conditions, or when damaged. Manufactured from high-quality virgin polypropylene.

Key Features

- **Secure Sample Storage & Tracking**
  - Permanently laser etched 2D code on base, ensuring a permanent link between sample and data
  - 2D codes readable without removing tubes from racks
  - High contrast 2D codes are more reliably readable in frost or condensation conditions
  - 100% quality control, each tube is tested to ensure both readability and uniqueness
  - Leak tested to ensure sample security
  - Suitable for sealing with automation friendly screw caps
  - Suitable for cryogenic storage*

**Not for use in liquid phase nitrogen*

- **Capping Options**

  Screw caps

  - Automation friendly screw caps for internal thread tubes eliminate the possibility of over tightening
  - Double start thread engages in a maximum rotation of 180°, facilitating automation
- **Racking Options**

  48 format SBS racks

  - TwistLock: prevents tubes rotating within the rack to enable automated capping and de-capping of screw caps; provided as standard with the option available to remove
  - TubeLock: prevents tubes from falling out, even in lidless racks; useful in manual workflows; activate by applying pressure on the tube top, clicking it into place; tubes can be ordered pre-locked or non-locked
  - LidLock: enables racks to withstand a 1m drop test for added sample security
  - Automatic rack orientation: a unique 2D code rack identifier readable at the same time as the tube 2D code; for automatic rack orientation and secure sample tracking
  - Direct laser etching: a cutout window on the rack sides allow the linear barcode to be read more easily; linear barcodes can be laser etched directly onto racks

  Cryo racks

  - 136.2mm x 136.2mm PP cryobox rack option available for cryogenic sample storage, holding 81 tubes in 9x9 array
  - Alternatively, 136.2mm x 136.2mm PP cryobox rack option available for cryogenic sample storage, holding 100 tubes in 10x10 array
  - Open bottom for 2D code decoding on Azenta Life Sciences Camera-Based Full Rack Barcode Readers
  - Can be supplied with a unique 2D code identifier which can be read at the same time as the tube 2D code, for more secure sample tracking

Specifications

Parameter	**1.8ml 2D-coded Tube, 48-format, Internal Thread (with screw cap)**
Max. working volume	1.8ml
Tube height	38.0mm
Tube height with cap	47.8mm
Inner diameter	10.6mm
Outer diameter with cap	12.6mm
Center to center	13.5mm
Minimum temperature	-196°C

Tube height in rack	45.0mm
Overall rack height (including lid)	56.0mm

Ordering Information

Use these part numbers to request a quote, a sample or to contact an expert:

Part number	Description
1.8ml 2D-coded Tube, 48-format, Internal Thread 2D code on base	
65-7502-01	capped, bulk; 100 tubes
Compatible racks	
65-9452	**48-Format Rack, 2 Piece Rack Base**, with open bottom for reading on our range of rack readers; 10 racks
65-9458	**48-Format Rack, 1 Piece Rack Base**, with open bottom for reading on our range of rack readers; 10 racks
65-1700	**Cryo Rack 9x9**, white, PP; 10 racks
65-1701	**Cryo Rack 10x10**, white, PP; 10 racks
Compatible caps	
65-7552	**Internal Thread Screw Cap**, orange, 48-format, bulk; 1,000 caps