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Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
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Липецк (4742)52-20-81

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Нижний Новгород (831)429-08-12  
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Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
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## Tri-Coded Tubes, External Thread

# 0.5ml Tri-coded Tube, 96-format, External Thread



68-0703-10 | 0.5ml Tri-coded Tube, 96-format, External Thread, Capped | Barcode & HRN Detail

Azenta Life Sciences tri-coded tubes offer unequalled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities

- Next Generation manufacturing techniques
- Code readable without removing tubes from racks
- Suitable for cryogenic storage
- Made from high-quality virgin PP
- Available in 96-well format SBS racks or bulk
- Sealable with screw caps/TPE septum caps

## Overview

Offers unequalled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities. 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. Developed to exceed the demands of sample security, management and tracking in modern high density storage applications.

Each tube features a permanent 2D code laser etched in high contrast on the tube base, a permanent 1D linear barcode and human-readable number laser etched in high-contrast on the tube side. All three codes are identical and auditing processes guarantee all three codes match; standard 2D coding option is black on white.

## Key Features

- **Secure Sample Storage & Tracking**

- Permanently laser etched 2D code on base, 1D linear barcode and human readable number on the side, 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
- External thread tubes provide greater working volume than internal thread tubes
- Suitable for sealing with screw caps or TPE septum caps
- Suitable for cryogenic storage\*

*\*Not for use in liquid phase nitrogen*

- **Capping Options**

### Screw caps

- A deforming compression seal more effective than a silicone alternative
- A non-silicone seal means the cap can never be over-tightened
- Caps and tubes are manufactured from the same material, preventing differential expansion during freeze-thaw cycles
- A double-start thread engages in a maximum rotation of 180°, thereby facilitating automation

### TPE septum caps

- A cost effective sealing option for samples that are only accessed occasionally
- Septum caps are supplied in 96-format back mats to facilitate automation

- **Racking Options**

### 96 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

## Specifications

Parameter	0.5ml Tri-coded Tube, 96-format, External Thread (with screw cap)	0.5ml Tri-coded Tube, 96-format, External Thread (with septum cap)

Max. working volume	0.52ml	0.50ml
Tube height	26.4mm	26.4mm
Tube height with cap	29.8mm	27.6mm
Inner diameter	6.5mm	6.5mm
Outer diameter with cap	8.7mm	8.7mm
Center to center	9.0mm	9.0mm
Minimum temperature	-196°C	-80°C
Tube height in rack	30.3mm	28.1mm
Overall rack height (including lid)	32.9mm	32.9mm

## Ordering Information

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

Part number	Description
<b>0.5ml Tri-coded Tube, 96-format, External Thread</b> 2D code on base, 1D linear barcode and human readable number on side	
68-0703-00	uncapped, bulk; 960 tubes
68-0703-01	uncapped, racked (66-51004); 10 racks/960 tubes
68-0703-02	uncapped, racked (66-51026); 10 racks/960 tubes
68-0703-10	capped, bulk; 960 tubes
68-0703-11	capped, racked (66-51004); 10 racks/960 tubes

68-0703-12 BUY ONLINE*	capped, racked (66-51026); 10 racks/960 tubes
<b>0.5ml 2D-coded Tube, 96-format, External Thread</b> 2D code on base	
68-0704-00	uncapped, bulk; 960 tubes
68-0704-01	uncapped, racked (66-51004); 10 racks/960 tubes
68-0704-02	uncapped, racked (66-51026); 10 racks/960 tubes
68-0704-10	capped, bulk; 960 tubes
68-0704-11	capped, racked (66-51004); 10 racks/960 tubes
68-0704-12	capped, racked (66-51026); 10 racks/960 tubes
<b>Compatible racks</b>	
66-51004	<b>96-Format, LowBase Rack</b> ; 10 racks
66-51026 BUY ONLINE*	<b>96-Format, HighBase Rack</b> ; 10 racks

*\*Online availability to US only*

# 0.8ml Tri-coded Tube, 96-format, External Thread



68-0801-10 | 0.8ml Tri-coded Tube, 96-format, External Thread, Capped | Barcode & HRN

Azenta Life Sciences tri-coded tubes offer unequaled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities

- Next Generation manufacturing techniques
- Code readable without removing tubes from racks
- Suitable for cryogenic storage
- Made from high-quality virgin PP
- Available in 96-well format SBS racks or bulk
- Sealable with screw caps/TPE septum caps

## Overview

Offers unequaled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities. 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. Developed to exceed the demands of sample security, management and tracking in modern high density storage applications.

Each tube features a permanent 2D code laser etched in high contrast on the tube base, a permanent 1D linear barcode and human-readable number laser etched in high-contrast on the tube side. All three codes are identical and auditing processes guarantee all three codes match; standard 2D coding option is black on white.

## Key Features

- **Secure Sample Storage & Tracking**
  - Permanently laser etched 2D code on base, 1D linear barcode and human readable number on the side, 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
  - External thread tubes provide greater working volume than internal thread tubes
  - Suitable for sealing with screw caps or TPE septum caps
  - Suitable for cryogenic storage\*

*\*Not for use in liquid phase nitrogen*

- **Capping Options**

### Screw caps

- A deforming compression seal more effective than a silicone alternative
- A non-silicone seal means the cap can never be over-tightened
- Caps and tubes are manufactured from the same material, preventing differential expansion during freeze-thaw cycles
- A double-start thread engages in a maximum rotation of 180°, thereby facilitating automation

### TPE septum caps

- A cost effective sealing option for samples that are only accessed occasionally
  - Septum caps are supplied in 96-format back mats to facilitate automation
- **Racking Options**

### 96 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
- 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

## Specifications

Parameter	0.8ml Tri-coded Tube, 96-format, External Thread (with screw cap)	0.8ml Tri-coded Tube, 96-format, External Thread (with septum cap)
Max. working volume	0.8ml	0.7ml
Tube height	36.9mm	36.9mm
Tube height with cap	40.3mm	38.1mm
Inner diameter	6.5mm	6.5mm
Outer diameter with cap	8.7mm	8.7mm
Center to center	9.0mm	9.0mm
Minimum temperature	-196°C	-80°C
Tube height in rack	41.2mm	39.0mm
Overall rack height (including lid)	43.9mm	43.9mm

## Ordering Information

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

Part number	Description
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### 0.8ml Tri-coded Tube, 96-format, External Thread

2D code on base, 1D linear barcode and human readable number on side

68-0801-00	uncapped, bulk; 960 tubes
68-0801-01	uncapped, racked (66-51021); 10 racks/960 tubes
68-0801-10	capped, bulk; 960 tubes
68-0801-11	capped, racked (66-51021); 10 racks/960 tubes
<b>Compatible racks</b>	
66-51021	<b>96-Format, HighBase Rack</b> ; 10 racks

## 1.0ml Tri-coded Tube, 96-format, External Thread



68-1003-10 | 1.0ml Tri-coded Tube, 96-format, External Thread, Capped | Barcode & HRN Detail

Azenta Life Sciences tri-coded tubes offer unequaled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities

- Next Generation manufacturing techniques
- Code readable without removing tubes from racks
- Suitable for cryogenic storage
- Made from high-quality virgin PP
- Available in 96-well format SBS racks or bulk
- Sealable with screw caps/TPE septum caps

## Overview

Offers unequalled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities. 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. Developed to exceed the demands of sample security, management and tracking in modern high density storage applications.

Each tube features a permanent 2D code laser etched in high contrast on the tube base, a permanent 1D linear barcode and human-readable number laser etched in high-contrast on the tube side. All three codes are identical and auditing processes guarantee all three codes match; standard 2D coding option is black on white.

## Key Features

- **Secure Sample Storage & Tracking**

- Permanently laser etched 2D code on base, 1D linear barcode and human readable number on the side, 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
- External thread tubes provide greater working volume than internal thread tubes
- Suitable for sealing with screw caps or TPE septum caps
- Suitable for cryogenic storage\*

*\*Not for use in liquid phase nitrogen*

- **Capping Options**

### **Screw caps**

- A deforming compression seal more effective than a silicone alternative
- A non-silicone seal means the cap can never be over-tightened
- Caps and tubes are manufactured from the same material, preventing differential expansion during freeze-thaw cycles
- A double-start thread engages in a maximum rotation of 180°, thereby facilitating automation

### **TPE septum caps**

- A cost effective sealing option for samples that are only accessed occasionally
- Septum caps are supplied in 96-format back mats to facilitate automation

- **Racking Options**

### **96 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 Storage Racks

- 136.2mm x 136.2mm PC cryobox rack option available for cryogenic sample storage, holding 196 tubes in 14x14 array
- Open bottom for 2D code decoding on Azenta Life Sciences range of 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	1.0ml Tri-coded Tube, 96-format, External Thread (with screw cap)	1.0ml Tri-coded Tube, 96-format, External Thread (with septum cap)
Max. working volume	1.0ml	0.9ml
Tube height	46.2mm	46.2mm
Tube height with cap	49.6mm	47.4mm
Inner diameter	6.5mm	6.5mm
Outer diameter with cap	8.7mm	8.7mm
Center to center	9.0mm	9.0mm
Minimum temperature	-196°C	-80°C
Tube height in rack	50.5mm	47.1mm
Overall rack height (including lid)	53.2mm	53.2mm

### Ordering Information

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

Part number	Description
<b>1.0ml Tri-coded Tube, 96-format, External Thread</b> 2D code on base, 1D linear barcode and human readable number on side	
68-1003-00	uncapped, bulk; 960 tubes
68-1003-01	uncapped, racked (66-51020); 10 racks/960 tubes
68-1003-10	capped, bulk; 960 tubes
68-1003-11 <b>BUY ONLINE*</b>	capped, racked (66-51020); 10 racks/960 tubes
<b>1.0ml 2D-coded Tube, 96-format, External Thread</b> 2D code on base	
68-1004-00	uncapped, bulk; 960 tubes
68-1004-01	uncapped, racked (66-51020); 10 racks/960 tubes
68-1004-10	capped, bulk; 960 tubes
68-1004-11	capped, racked (66-51020); 10 racks/960 tubes
<b>Compatible racks</b>	
66-51020 <b>BUY ONLINE*</b>	<b>96-Format, HighBase Rack</b> ; 10 racks
66-0196-03	<b>Cryo Rack 14x14</b> , black, PC; 10 racks

*\*Online availability to US only*

# 1.5ml Tri-coded Tube, 48-format, External Thread



65-7661 | 1.5ml Tri-coded Tube, 48-format, External Thread, Capped | Barcode & HRN Detail

Azenta Life Sciences tri-coded tubes offer unequalled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities

- Next Generation manufacturing techniques
- Code readable without removing tubes from racks
- Suitable for cryogenic storage
- Made from high-quality virgin PP
- Available in 48-well format SBS racks or bulk
- Sealable with screw caps

## Overview

Offers unequalled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities. 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. Developed to exceed the demands of sample security, management and tracking in modern high density storage applications.

Each tube features a permanent 2D code laser etched in high contrast on the tube base, a permanent 1D linear barcode and human-readable number laser etched in high-contrast on the tube side. All three codes are identical and auditing processes guarantee all three codes match; standard 2D coding option is black on white.

## Key Features

- **Secure Sample Storage & Tracking**
  - Permanently laser etched 2D code on base, 1D linear barcode and human readable number on the side, 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
- External thread tubes provide greater working volume than internal thread tubes
- Suitable for sealing with screw caps
- Suitable for cryogenic storage\*

*\*Not for use in liquid phase nitrogen*

- **Capping Options**

#### **Screw caps**

- A deforming compression seal more effective than a silicone alternative
- A non-silicone seal means the cap can never be over-tightened
- Caps and tubes are manufactured from the same material, preventing differential expansion during freeze-thaw cycles
- A double-start thread engages in a maximum rotation of 180°, thereby 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 PC cryobox rack option available for cryogenic sample storage, holding 81 tubes in 9x9 array
- Alternatively, 136.2mm x 136.2mm PC cryobox rack option available for cryogenic sample storage, holding 100 tubes in 10x10 array
- Open bottom for 2D code decoding on Azenta Life Sciences range of 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	1.5ml Tri-coded Tube, 48-format, External Thread (with screw cap)
Max. working volume	1.5ml
Tube height	30.6mm
Tube height with cap	36.3mm

Inner diameter	9.6mm
Outer diameter with cap	12.8mm
Center to center	13.5mm
Minimum temperature	-196°C
Tube height in rack	48.2mm
Overall rack height (including lid)	49.4mm

### *Ordering Information*

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

Part number	Description
<b>1.5ml Tri-coded Tube, 48-format, External Thread</b> 2D code on base, 1D linear barcode and human readable number on side	
65-7660	uncapped, bulk; 480 tubes
65-7661	capped, bulk; 480 tubes
65-7662	uncapped, racked (65-9451); 10 racks/480 tubes
65-7663	capped, racked (65-9451); 10 racks/480 tubes
<b>1.5ml 2D-coded Tube, 48-format, External Thread</b> 2D code on base	
65-7664	uncapped, bulk; 480 tubes
65-7665	capped, bulk; 480 tubes
65-7666	uncapped, racked (65-9451); 10 racks/480 tubes
65-7667	capped, racked (65-9451); 10 racks/480 tubes

Compatible racks	
65-9451 BUY ONLINE*	48-Format Rack, 1 Piece “Heart Rack” Rack Base; 10 racks
66-1801	Cryo Rack 9x9, black, PC; 10 racks
66-1800	Cryo Rack 10x10, black, PC; 10 racks

*\*Online availability to US only*

# 1.9ml Tri-coded Tube, 48-format, External Thread



65-7641 | 1.9ml Tri-coded Tube, 48-format, External Thread, Capped | Barcode & HRN Detail

Azenta Life Sciences tri-coded tubes offer unequalled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities

- Next Generation manufacturing techniques
- Code readable without removing tubes from racks
- Suitable for cryogenic storage
- Made from high-quality virgin PP
- Available in 48-well format SBS racks or bulk
- Sealable with screw caps

## Overview

Offers unequalled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities. 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. Developed to exceed the demands of sample security, management and tracking in modern high density storage applications.

Each tube features a permanent 2D code laser etched in high contrast on the tube base, a permanent 1D linear barcode and human-readable number laser etched in high-contrast on the tube

side. All three codes are identical and auditing processes guarantee all three codes match; standard 2D coding option is black on white.

## Key Features

- **Secure Sample Storage \* Tracking**

- Permanently laser etched 2D code on base, 1D linear barcode and human readable number on the side, 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
- External thread tubes provide greater working volume than internal thread tubes
- Suitable for sealing with screw caps
- Suitable for cryogenic storage\*

*\*Not for use in liquid phase nitrogen*

- **Capping Options**

### **Screw caps**

- A deforming compression seal more effective than a silicone alternative
- A non-silicone seal means the cap can never be over-tightened
- Caps and tubes are manufactured from the same material, preventing differential expansion during freeze-thaw cycles
- A double-start thread engages in a maximum rotation of 180°, thereby 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 PC cryobox rack option available for cryogenic sample storage, holding 81 tubes in 9x9 array
- Alternatively, 136.2mm x 136.2mm PC 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	1.9ml Tri-coded Tube, 48-format, External Thread (with screw cap)
Max. working volume	1.9ml
Tube height	38.2mm
Tube height with cap	43.9mm
Inner diameter	9.6mm
Outer diameter with cap	12.8mm
Center to center	13.5mm
Minimum temperature	-196°C
Tube height in rack	45.0mm
Overall rack height, including lid (65-9451)	49.4mm

## Ordering Information

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

Part number	Description
<b>1.9ml Tri-coded Tube, 48-format, External Thread</b> 2D code on base, 1D linear barcode and human readable number on side	
65-7640	uncapped, bulk; 480 tubes
65-7641 BUY ONLINE*	capped, bulk; 480 tubes
65-7642	uncapped, racked; 10 racks (65-9451)
65-7643 BUY ONLINE*	capped, racked; 10 racks (65-9451)



## 1.9ml 2D-coded Tube, 48-format, External Thread

2D code on base

65-7644	uncapped, bulk; 480 tubes
65-7645	capped, bulk; 480 tubes
65-7646	uncapped, racked; 10 racks (65-9451)
65-7647	capped, racked; 10 racks (65-9451)

### Compatible racks

65-9451 BUY ONLINE*	<b>48-Format Rack, 1 Piece Rack Base</b> ; 10 racks
66-1801	<b>Cryo Rack 9x9</b> , black, PC; 10 racks
66-1800	<b>Cryo Rack 10x10</b> , black, PC; 10 racks

*\*Online availability to US only*

## 3.8ml Tri-coded Tube, 48-format, External Thread



65-7517 | 3.8ml Tri-coded Tube, 48-format, External Thread, Capped | Barcode & HRN Detail

Azenta Life Sciences tri-coded tubes offer unequalled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities

- Next Generation manufacturing techniques
- Code readable without removing tubes from racks
- Suitable for cryogenic storage
- Made from high-quality virgin PP
- Available in 48-well format SBS racks or bulk

- Sealable with screw caps

## Overview

Offers unequalled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities. 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. Developed to exceed the demands of sample security, management and tracking in modern high density storage applications.

Each tube features a permanent 2D code laser etched in high contrast on the tube base, a permanent 1D linear barcode and human-readable number laser etched in high-contrast on the tube side. All three codes are identical and auditing processes guarantee all three codes match; standard 2D coding option is black on white.

## Key Features

### • Secure Sample Storage & Tracking

- Permanently laser etched 2D code on base, 1D linear barcode and human readable number on the side, 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
- External thread tubes provide greater working volume than internal thread tubes
- Suitable for sealing with screw caps
- Suitable for cryogenic storage\*

*\*Not for use in liquid phase nitrogen*

### • Capping Options

#### Screw caps

- A deforming compression seal more effective than a silicone alternative
- A non-silicone seal means the cap can never be over-tightened
- Caps and tubes are manufactured from the same material, preventing differential expansion during freeze-thaw cycles
- A double-start thread engages in a maximum rotation of 180°, thereby 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

## Specifications

Parameter	3.8ml Tri-coded Tube, 48-format, External Thread (with screw cap)
Max. working volume	3.8ml
Tube height	75.0mm
Tube height with cap	80.7mm
Inner diameter	9.6mm
Outer diameter with cap	12.8mm
Center to center	13.5mm
Minimum temperature	-196°C
Tube height in rack	81.7mm
Overall rack height (including lid)	86.2mm

## Ordering Information

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

Part number	Description
<b>3.8ml Tri-coded Tube, 48-format, External Thread</b> 2D code on base, 1D linear barcode and human readable number on side	
65-7514	uncapped, racked (65-9460); 10 racks/480 tubes
65-7515 BUY ONLINE*	capped, racked (65-9460); 10 racks/480 tubes

65-7516	uncapped, bulk; 480 tubes
65-7517	capped, bulk; 480 tubes
<b>Compatible racks</b>	
65-9460	<b>48-Format Rack, 2 Piece Rack Base</b> , with open bottom for reading on our range of rack readers; 10 racks
<b>Compatible caps</b>	
65-7572	<b>External Thread Screw Cap</b> , orange, 48-format, bulk, suitable for 48-Format Cryo Tubes; 480 caps

*\*Online availability to US only*

# 7.6ml Tri-coded Tube, 24-format, External Thread



66-9302 | 7.6ml Tri-coded Tube, 24-format, External Thread, Capped | Barcode & HRN Detail

Azenta Life Sciences tri-coded tubes offer unequaled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities

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

## Overview

Offers unequaled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities. 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. Developed to exceed the demands of sample security, management and tracking in modern high density storage applications.

Each tube features a permanent 2D code laser etched in high contrast on the tube base, a permanent 1D linear barcode and human-readable number laser etched in high-contrast on the tube side. All three codes are identical and auditing processes guarantee all three codes match; standard 2D coding option is black on white.

## Key Features

- **Secure Sample Storage & Tracking**

- Permanently laser etched 2D code on base, 1D linear barcode and human readable number on the side, 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
- External thread tubes provide greater working volume than internal thread tubes
- 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 provide flexibility to use tubes across a range of industry-recognized automated tube handling platforms
- Deforming compression seal is more effective than a silicone alternative
- Cap and tube manufactured from the same material, preventing differential expansion during freeze-thaw cycles
- Double start thread engages in a maximum rotation of 180°, facilitating automation
- Non-silicone seal means the cap can never be overtightened

- **Racking Options**

### **24 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

## Specifications

Parameter	7.6ml Tri-coded Tube, 24-format, External Thread (with automation-friendly cap)
Max. working volume	7.6ml
Tube height	77.4mm
Tube height with cap	83.6mm
Inner diameter	13.0mm
Outer diameter with cap	17.0mm
Center to center	18.0mm
Minimum temperature	-196°C
Tube height in rack	84.7mm
Overall rack height (including lid)	88.5mm

## Ordering Information

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

Part number	Description
<b>7.6ml Tri-coded Tube, 24-format, External Thread</b> 2D code on base, 1D linear barcode and human readable number on side	
66-9302 <b>BUY ONLINE*</b>	capped with automation friendly cap, bulk; 240 tubes
65-9303	uncapped, bulk; 240 tubes
<b>Compatible racks</b>	
66-9455 <b>BUY ONLINE*</b>	<b>24-format Rack, 1 Piece Rack Base</b> , with open bottom for reading on XTR readers; 10 racks

## Compatible caps

66-9401

**Automation Friendly External Thread Cap**, orange, 24-format, bulk; 240 caps

*\*Online availability to US only*

Архангельск (8182)63-90-72  
Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06

Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
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Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
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