Thermo Fisher Scientific
Automated Storage Solutions

Next level storage ideal for enhanced sample tracking
Accelerate processing while ensuring sample integrity with Thermo Scientific 2D barcoded tubes and equipment

Whether you need a simple system for a small lab, or a sophisticated system for an automated environment, we have a 2D solution for you. Thermo Scientific™ tubes and equipment are engineered and tested to work together to ensure:

- sample traceability
- sample security
- optimal performance

Barcode readers

Thermo Scientific VisionMate Barcode Readers

2D and 1D barcode decoding for sample tracking

- Choose from a range of user-friendly barcode readers to meet budget and performance needs include.
- Small footprint, low profile readers conserve valuable lab space but can read up to 96 barcodes at a time.
- Wireless and Single Tube barcode readers complement any workstation, providing quality control tube IDs, the ability to cherry pick samples and process a small number of tubes or racks.

<table>
<thead>
<tr>
<th>VisionMate Wireless Reader</th>
<th>VisionMate Single Tube 2D Barcode Reader</th>
<th>VisionMate Single Rack 2D Barcode Reader</th>
<th>VisionMate High Speed 2D Barcode Reader</th>
</tr>
</thead>
<tbody>
<tr>
<td>enables sample tracking on the go; in the field, cold room, or around the lab. Store over 600,000 codes in the internal memory!</td>
<td>instantly scans a single tube; tethered to the work station and always ready to scan.</td>
<td>decodes a rack of storage tubes in under 10 seconds.</td>
<td>with linear barcode accessory rapidly decodes a full rack or a single storage tube.</td>
</tr>
<tr>
<td>VisionMate High Speed 2D Barcode Reader</td>
<td>VisionMate Single Rack 2D Barcode Reader</td>
<td>VisionMate Single Tube 2D Barcode Reader</td>
<td>VisionMate Wireless Barcode Reader</td>
</tr>
<tr>
<td>312800</td>
<td>3115-11</td>
<td>3125</td>
<td>3122-V2</td>
</tr>
</tbody>
</table>

All 2D Barcodes are

- Unique – no duplicates!
- Laser-etched, permanently affixed to tube for traceability and won’t fall off
- High-contrast, which allows for fast scanning
Screw top tube Capper and Decapper

- Tighten screw top caps to the optimal torque to prevent sample loss
- Reduce the risk of repetitive stress injuries (RSI)

Thermo Scientific Handheld Capper and Decappers

The 8-channel Capper/Decapper is a practical addition to benchtop processing of screw top storage tubes. Process a full rack of Matrix or Nunc tubes in less than one minute with this ergonomic, handheld Capper/Decapper.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4105MAT</td>
<td>8-Channel Handheld Screw Cap Capper/Decapper with stand for Matrix Tubes</td>
</tr>
<tr>
<td>4105NUN</td>
<td>8-Channel Handheld Screw Cap Capper/Decapper with stand for Nunc Tubes</td>
</tr>
</tbody>
</table>

Thermo Scientific Decapper 500 and Decapper 550 with Integrated Barcode Reader

Automated decapping and capping of Matrix and Nunc screw top tubes in ANSI racks with Quick Switch Technology for medium-to-high throughput laboratories.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4117-500</td>
<td>Decapper 500</td>
</tr>
<tr>
<td>4117-550</td>
<td>Decapper 550 with Barcode Reader</td>
</tr>
<tr>
<td>4118-101</td>
<td>Adapter kit, 96 Matrix</td>
</tr>
<tr>
<td>4118-102</td>
<td>Adapter kit, 96 Matrix low profile cap</td>
</tr>
<tr>
<td>4118-103</td>
<td>Adapter kit, 96 Nunc</td>
</tr>
<tr>
<td>4118-104</td>
<td>Adapter kit, 48 Nunc</td>
</tr>
<tr>
<td>4118-201</td>
<td>Cap Holder 96</td>
</tr>
<tr>
<td>4118-202</td>
<td>Cap Holder 48 Nunc External</td>
</tr>
<tr>
<td>4118-203</td>
<td>Cap Holder 48 Nunc Internal</td>
</tr>
</tbody>
</table>

Thermo Scientific Capit-All Decapper

Maintain sample integrity with a hands-free method of capping and decapping tubes quickly and easily with the Thermo Scientific™ Capit-All™ Screw Cap Tube Capper/Decapper. The Capit-All IS unit is ideal for integration into automated systems.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4111MAT</td>
<td>Capit-All Screw Cap Capper/Decapper, Matrix 96-way Tubes</td>
</tr>
<tr>
<td>4111NUN</td>
<td>Capit-All Screw Cap Capper/Decapper, Nunc 96-way Tubes</td>
</tr>
<tr>
<td>4114NUN</td>
<td>Capit-All Screw Cap Capper/Decapper, Nunc 48-way Tubes</td>
</tr>
<tr>
<td>4111MAT-IS</td>
<td>Capit-All IS Integration-Friendly Screw Cap Capper/Decapper, Matrix 96-way Tubes</td>
</tr>
<tr>
<td>4111NUN-IS</td>
<td>Capit-All IS Integration-Friendly Screw Cap Capper/Decapper, Nunc 96-way Tubes</td>
</tr>
</tbody>
</table>
Thermo Scientific™ 2D barcoded tubes and caps designed with your application temperatures in mind.

Typical Applications

<table>
<thead>
<tr>
<th>Application</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compound Stores</td>
<td>4°C</td>
</tr>
<tr>
<td>Long Term</td>
<td>-20°C</td>
</tr>
<tr>
<td>Compound Storage</td>
<td>-80°C</td>
</tr>
<tr>
<td>Biorepositories/ Biobanks</td>
<td>-150°C</td>
</tr>
<tr>
<td>Cell Culture</td>
<td>-176°C</td>
</tr>
<tr>
<td>Tissue Freezing</td>
<td>-196°C</td>
</tr>
</tbody>
</table>

Recommended Tubes and Caps

- **Thermo Scientific Matrix Open Top Tubes with Septum Caps**
- **Thermo Scientific Matrix Screwtop Tubes**
- **Thermo Scientific Nunc Cryobank Tubes**
- **Thermo Scientific Nunc Universal Tubes**

**Note:** For direct storage in liquid nitrogen, Cryobank tubes should be enclosed in Thermo Scientific™ Cryoflex tubing.

No more labels falling off in the freezer or in liquid nitrogen tanks

- Permanent 2D, linear, and human readable codes on 3 sides of the rack.
- 2D barcode on the rack bottom enables orientation detection and ID when using automated storage equipment.
- Human readable code permits visual sample ID.
- Eliminate the need buying, printing, and applying labels.
Thermo Scientific Matrix
2D Barcoded Screw Top Tubes

Ideal for biobanking. Recommended for use at temperatures from -80°C to -196°C.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Volume</th>
<th>Description</th>
<th>Rack Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3747</td>
<td>0.2mL</td>
<td>2D Barcoded Screw top tubes w/caps installed, sterile</td>
<td>Bulk</td>
<td>480</td>
</tr>
<tr>
<td>3748-BR</td>
<td>0.2mL</td>
<td>2D Barcoded Screw top tubes w/caps installed, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3743</td>
<td>0.5mL</td>
<td>2D Barcoded Screw top tubes w/caps installed, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3743-WP1D</td>
<td>0.5mL</td>
<td>2D Barcoded Screw top tubes w/caps installed, White Patch 1D, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3744-BR</td>
<td>0.5mL</td>
<td>2D Barcoded Screw top tubes w/caps installed, sterile latch</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3744-WP-BR</td>
<td>0.5mL</td>
<td>2D Barcoded Screw top tubes w/caps installed, White Patch, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3744-WP1D-BR</td>
<td>0.5mL</td>
<td>2D Barcoded Screw top tubes w/caps installed, White Patch 1D, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3745-BR</td>
<td>0.5mL</td>
<td>2D Barcoded Screw top tubes, without caps, sterile latch</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3745-WP-BR</td>
<td>0.5mL</td>
<td>2D Barcoded Screw top tubes, without caps, White Patch, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3745-WP1D-BR</td>
<td>0.5mL</td>
<td>2D Barcoded Screw top tubes, without caps, White Patch 1D, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3743AMB-BR</td>
<td>0.5mL</td>
<td>2D Barcoded Amber Screw top tubes w/red caps installed, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3744AMB-BR</td>
<td>0.5mL</td>
<td>2D Barcoded Amber Screw top tubes, without caps, sterile latch</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3740</td>
<td>1.0mL</td>
<td>2D Barcoded Screw top tubes w/caps installed, sterile</td>
<td>latch</td>
<td>10 bags of 48 tubes/case</td>
</tr>
<tr>
<td>3740-WP1D</td>
<td>1.0mL</td>
<td>2D Barcoded Screw top tubes, White Patch 1D, sterile</td>
<td>latch</td>
<td>10 bags of 48 tubes/case</td>
</tr>
<tr>
<td>3741-BR</td>
<td>1.0mL</td>
<td>2D Barcoded Screw top tubes w/caps installed, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3741-WP-BR</td>
<td>1.0mL</td>
<td>2D Barcoded Screw top tubes w/caps installed, White Patch, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3741-WP1D-BR</td>
<td>1.0mL</td>
<td>2D Barcoded Screw top tubes w/caps installed, White Patch 1D, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3742-BR</td>
<td>1.0mL</td>
<td>ScrewTop tubes, without caps, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3742-WP-BR</td>
<td>1.0mL</td>
<td>ScrewTop tubes, without caps, White Patch, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3742-WP1D-BR</td>
<td>1.0mL</td>
<td>ScrewTop tubes, without caps, White Patch 1D, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3743AMB-BR</td>
<td>1.0mL</td>
<td>2D Barcoded Amber Screw top tubes w/red caps installed, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3742AMB-BR</td>
<td>1.0mL</td>
<td>2D Barcoded Amber Screw top tubes, without caps, sterile</td>
<td>latch</td>
<td>5 racks of 96 tubes/case</td>
</tr>
<tr>
<td>4897-BR</td>
<td>1.0mL</td>
<td>Latch rack, empty</td>
<td>latch</td>
<td>5 racks/case</td>
</tr>
<tr>
<td>4470</td>
<td></td>
<td>Screw top caps, sterile</td>
<td></td>
<td>500 caps/case</td>
</tr>
<tr>
<td>4477</td>
<td></td>
<td>Screw top cap tray</td>
<td></td>
<td>5 trays of 96 caps/case</td>
</tr>
<tr>
<td>4900-BR</td>
<td>0.5mL</td>
<td>Latch rack, empty</td>
<td></td>
<td>10 bags of 48 tubes/case</td>
</tr>
<tr>
<td>4906</td>
<td></td>
<td>Screw top cap tray, empty</td>
<td></td>
<td>5 trays/case</td>
</tr>
</tbody>
</table>

Color caps available – see colored capping options

Material: All Virgin Medical Grade Polypropylene
Caps: Polypropylene with colorants and molded-in TPE gasket

“-BR” suffix means tubes come racked in barcoded latch racks. These part numbers are also available standard, in non-barcoded racks.

Thermo Scientific Matrix
2D Barcoded Open Top Tubes

Recommended for use at ambient temperatures to -20°C.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Volume</th>
<th>Description</th>
<th>Rack type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3750</td>
<td>0.5mL</td>
<td>2D Barcoded Open top tubes, V-bottom</td>
<td></td>
<td>960/case</td>
</tr>
<tr>
<td>3734</td>
<td>0.5mL</td>
<td>2D Barcoded Open top tubes, V-bottom</td>
<td>latch</td>
<td>10 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3735</td>
<td>0.5mL</td>
<td>2D Barcoded Open top tubes, V-bottom, sterile</td>
<td>latch w/green latches</td>
<td>10 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3725</td>
<td>0.5mL</td>
<td>2D Barcoded Open top tubes, V-bottom, sterile</td>
<td>latch w/red latches</td>
<td>10 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3736</td>
<td>0.5mL</td>
<td>2D Barcoded Open top tubes w/Duraseals installed, V-bottom</td>
<td>latch</td>
<td>10 racks of 96 tubes/case</td>
</tr>
<tr>
<td>3737</td>
<td>0.5mL</td>
<td>2D Barcoded Open top tubes, w/Duraseals installed, V-bottom, sterile</td>
<td>latch</td>
<td>10 racks of 96 tubes/case</td>
</tr>
<tr>
<td>4998-BR</td>
<td></td>
<td>Racks, empty for use with 0.2mL and 0.5mL tubes</td>
<td>latch w/green latches</td>
<td>10 racks /case</td>
</tr>
<tr>
<td>4999</td>
<td></td>
<td>Racks, empty, for use with 0.5mL tubes w/Duraseals installed</td>
<td>latch w/red latches</td>
<td>10 racks /case</td>
</tr>
<tr>
<td>3730</td>
<td>0.75mL</td>
<td>2D Barcoded Open top tubes, V-bottom</td>
<td></td>
<td>960/case</td>
</tr>
<tr>
<td>Cat. No.</td>
<td>Description</td>
<td>Quantity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>------------------------------------------------------------------------------</td>
<td>----------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4490</td>
<td>DuraSeal septa</td>
<td>Bulk, 500 per case</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4463</td>
<td>SepraSeal Cap Mat</td>
<td>10 mats of 96/case</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4464</td>
<td>SepraSeal Cap Mat, sterile</td>
<td>10 mats of 96/case</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4465</td>
<td>Pre-split SepraSeal Cap Mat</td>
<td>10 mats of 96/case</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4466</td>
<td>Pre-split SepraSeal Cap Mat, sterile</td>
<td>10 mats of 96/case</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Compatible Products

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4110</td>
<td>Thermo Scientific™ SuperSealer™ for installing SepraSeal caps</td>
</tr>
<tr>
<td>4469</td>
<td>SepraSeal Removal Tool</td>
</tr>
</tbody>
</table>

Colored Capping Options

Colored options are available for Matrix ScrewTop caps* and SepraSeal septa. Simply add the following 3 characters to each catalog number for the colored version equivalent. (e.g. 4465RED = red SepraSeal septa in 10 mats of 96/case)

* Not including 3747, 3748

<table>
<thead>
<tr>
<th>Color</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED</td>
<td>red</td>
</tr>
<tr>
<td>YEL</td>
<td>yellow</td>
</tr>
<tr>
<td>PUR</td>
<td>purple</td>
</tr>
<tr>
<td>GRE</td>
<td>green</td>
</tr>
<tr>
<td>WHI</td>
<td>white (caps only)</td>
</tr>
<tr>
<td>BLU</td>
<td>blue</td>
</tr>
<tr>
<td>GRY</td>
<td>gray (septa only)</td>
</tr>
</tbody>
</table>

Thermo Scientific Matrix Duraseal and SepraSeal Capping Options

Thermo Scientific™ Matrix™ SepraSeal™ septa enables individual tube capping plus the ability to apply 96 septa at once and store down to -20°C. Pre-split SepraSeal septa can be pierced multiple times. Permanently installed Thermo Scientific™ Matrix™ DuraSeal™ septa enable long-term storage at temperatures down to -150°C.

Tube Material: Virgin Medical Grade Polypropylene

Septa Cap Material: Virgin Medical Grade Thermoplastic Elastomer

Backling Material: Styrene Butadiene

Colored options available — see colored capping options

Septa Cap Material: Virgin Class VI Medical Grade Thermoplastic Elastomer and Colorants
## Thermo Scientific Nunc Screw Top Tubes

Ideal for cryostorage. Recommended for use from -150°C to -196°C in the vapor phase of liquid nitrogen.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Volume</th>
<th>Description</th>
<th>Cap Color</th>
<th>Rack Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>374086</td>
<td>0.5mL</td>
<td>Cryobank 2D Barcoded Screw top tubes, internal thread, sterile</td>
<td>Natural</td>
<td>black, locking</td>
<td>10 racks of 96 tubes/case</td>
</tr>
<tr>
<td>374027</td>
<td>0.5mL</td>
<td>Cryobank 2D Barcoded Screw top tubes, internal thread, sterile</td>
<td>Green</td>
<td>black, locking</td>
<td>10 racks of 96 tubes/case</td>
</tr>
<tr>
<td>374026</td>
<td>0.5mL</td>
<td>Cryobank 2D Barcoded Screw top tubes, internal thread, sterile</td>
<td>Red</td>
<td>black, locking</td>
<td>10 racks of 96 tubes/case</td>
</tr>
<tr>
<td>374025</td>
<td>0.5mL</td>
<td>Cryobank 2D Barcoded Screw top tubes, internal thread, sterile</td>
<td>Blue</td>
<td>black, locking</td>
<td>10 racks of 96 tubes/case</td>
</tr>
<tr>
<td>374088</td>
<td>1.0mL</td>
<td>Cryobank 2D Barcoded Screw top tubes, internal thread, sterile</td>
<td>Natural</td>
<td>black, locking</td>
<td>10 racks of 96 tubes/case</td>
</tr>
<tr>
<td>374110</td>
<td>1.0mL</td>
<td>Cryobank 2D Barcoded Screw top tubes, internal thread, sterile</td>
<td>Green</td>
<td>black, locking</td>
<td>10 racks of 96 tubes/case</td>
</tr>
<tr>
<td>374120</td>
<td>1.0mL</td>
<td>Cryobank 2D Barcoded Screw top tubes, internal thread, sterile</td>
<td>Red</td>
<td>black, locking</td>
<td>10 racks of 96 tubes/case</td>
</tr>
<tr>
<td>374130</td>
<td>1.0mL</td>
<td>Cryobank 2D Barcoded Screw top tubes, internal thread, sterile</td>
<td>Blue</td>
<td>black, locking</td>
<td>10 racks of 96 tubes/case</td>
</tr>
<tr>
<td>374000-BR</td>
<td>1.8mL</td>
<td>2D Barcoded Screw top tubes, external thread white patch, graduations, sterile</td>
<td>Natural</td>
<td>latch</td>
<td>10 racks of 48 tubes/case</td>
</tr>
<tr>
<td>374002</td>
<td>1.8mL</td>
<td>2D Barcoded Screw top tubes, external thread white patch, graduations, sterile</td>
<td>Natural</td>
<td>Bulk, 480</td>
<td></td>
</tr>
<tr>
<td>374510</td>
<td>2.0mL</td>
<td>2D Barcoded Screw top tube, internal thread white patch, graduations, sterile</td>
<td>Natural</td>
<td>latch</td>
<td>10 racks of 48 tubes/case</td>
</tr>
<tr>
<td>374512</td>
<td>2.0mL</td>
<td>2D Barcoded Screw top tube, internal thread white patch, graduations, sterile</td>
<td>Natural</td>
<td>Bulk, 480</td>
<td></td>
</tr>
<tr>
<td>374221-BR</td>
<td>2.0mL</td>
<td>Cryobank Screw top tubes, internal thread sterile</td>
<td>Natural</td>
<td>latch</td>
<td>10 racks of 48 tubes/case</td>
</tr>
<tr>
<td>374258</td>
<td>2.0mL</td>
<td>Cryobank 2D Barcoded Screw top tubes, internal thread sterile</td>
<td>Natural</td>
<td>20 bags of 48 tubes/case</td>
<td></td>
</tr>
<tr>
<td>374220-BR</td>
<td>5.0mL</td>
<td>Cryobank 2D Barcoded Screw top tubes, internal thread sterile</td>
<td>Natural</td>
<td>latch</td>
<td>10 racks of 48 tubes/case</td>
</tr>
<tr>
<td>374261</td>
<td>5.0mL</td>
<td>Cryobank 2D Barcoded Screw top tubes, internal thread sterile</td>
<td>Natural</td>
<td>11 bags of 48 tubes/case</td>
<td></td>
</tr>
<tr>
<td>374320-BR</td>
<td>5.0mL</td>
<td>Low profile 2D Barcoded top tubes, external thread white patch, sterile</td>
<td>Natural</td>
<td>latch</td>
<td>10 racks of 96 tubes/case</td>
</tr>
<tr>
<td>374322</td>
<td>5.0mL</td>
<td>Low profile 2D Barcoded top tubes, external thread white patch, sterile</td>
<td>Natural</td>
<td>Bulk, 240</td>
<td></td>
</tr>
</tbody>
</table>
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