

thermo scientific



# Thermo Fisher Scientific Automated Storage Solutions

Next level storage ideal for enhanced sample tracking

**ThermoFisher**  
SCIENTIFIC

# 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.



**VisionMate Wireless Reader** enables sample tracking on the go; in the field, cold room, or around the lab. Store over 600,000 codes in the internal memory!



**VisionMate Single Tube 2D Barcode Reader** instantly scans a single tube; tethered to the workstation and always ready to scan.



**VisionMate Single Rack 2D Barcode Reader** decodes a rack of storage tubes in under 10 seconds.



**VisionMate High Speed 2D Barcode Reader** with linear barcode accessory rapidly decodes a full rack or a single storage tube.

#### VisionMate Barcode Reader

| Cat. No. | Description                              |
|----------|--|
| 312800   | VisionMate High Speed 2D Barcode Reader  |
| 3115-11  | VisionMate Single Rack 2D Barcode Reader |
| 3125     | VisionMate Single Tube 2D Barcode Reader |
| 3122-V2  | VisionMate Wireless Barcode Reader       |



### 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.

| Handheld Decapper |  |
|-------------------|--|
| Cat. No.          | Description  |
| 4105MAT           | 8-Channel Handheld Screw Cap Capper/Decapper with stand for Matrix Tubes |
| 4105NUN           | 8-Channel Handheld Screw Cap Capper/Decapper with stand for Nunc Tubes   |

## 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.

| Decapper 500 |  |
|--------------|--|
| Cat. No.     | Description                            |
| 4117-500     | Decapper 500                           |
| 4117-550     | Decapper 550 with Barcode Reader       |
| 4118-101     | Adapter kit, 96 Matrix                 |
| 4118-102     | Adapter kit, 96 Matrix low profile cap |
| 4118-103     | Adapter kit, 96 Nunc                   |
| 4118-104     | Adapter kit, 48 Nunc                   |
| 4118-201     | Cap Holder 96                          |
| 4118-202     | Cap Holder 48 Nunc External            |
| 4118-203     | Cap Holder 48 Nunc Internal            |

## 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.

| Capit-All  |  |
|------------|--|
| Cat. No.   | Description  |
| 4111MAT    | Capit-All Screw Cap Capper/Decapper, Matrix 96-way Tubes                         |
| 4111NUN    | Capit-All Screw Cap Capper/Decapper, Nunc 96-way Tubes                           |
| 4114NUN    | Capit-All Screw Cap Capper/Decapper, Nunc 48-way Tubes                           |
| 4111MAT-IS | Capit-All IS Integration-Friendly Screw Cap Capper/Decapper, Matrix 96-way Tubes |
| 4111NUN-IS | Capit-All IS Integration-Friendly Screw Cap Capper/Decapper, Nunc 96-way Tubes   |



# Thermo Scientific™ 2D barcoded tubes and caps designed with your application temperatures in mind.

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.



## Typical Applications

Compound Stores

Long Term Compound Storage

Biorepositories/  
Biobanks

Cell Culture

Tissue Freezing

4°C

-20°C

-80°C

-150°C

-176°C

-196°C

## 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™ Cryflex tubing.



# Thermo Scientific Matrix 2D Barcoded Screw Top Tubes

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

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

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 -20C.

| Cat. No. | Volume | Description  | Rack type             | Quantity                  |
|----------|--------|--|-----------------------|---------------------------|
| 3750     | 0.5mL  | 2D Barcoded Open top tubes, V-bottom                                 |                       | 960/case                  |
| 3734     | 0.5mL  | 2D Barcoded Open top tubes, V-bottom                                 | latch                 | 10 racks of 96 tubes/case |
| 3735     | 0.5mL  | 2D Barcoded Open top tubes, V-bottom, sterile                        | latch w/green latches | 10 racks of 96 tubes/case |
| 3725     | 0.5mL  | 2D Barcoded Open top tubes, V-bottom, sterile                        | latch w/red latches   | 10 racks of 96 tubes/case |
| 3736     | 0.5mL  | 2D Barcoded Open top tubes w/Duraseals installed, V-bottom           | latch                 | 10 racks of 96 tubes/case |
| 3737     | 0.5mL  | 2D Barcoded Open top tubes, w/Duraseals installed, V-bottom, sterile | latch                 | 10 racks of 96 tubes/case |
| 4898-BR  |        | Racks, empty for use with 0,2mL and 0,5mL tubes                      | latch w/green latches | 10 racks /case            |
| 4899     |        | Racks, empty, for use with 0,5mL tubes w/Duraseals installed         | latch w/red latches   | 10 racks /case            |
| 3730     | 0,75mL | 2D Barcoded Open top tubes, V-bottom                                 |                       | 960/case                  |

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|      |        |   |                 |                            |
|------|--------|---|-----------------|----------------------------|
| 3731 | 0.75mL | 2D Barcoded Open top tubes, V-bottom                          | latch           | 10 racks of 96 tubes/case  |
| 3732 | 0.75mL | 2D Barcoded Open top tubes, V-bottom, sterile                 | latch           | 10 racks of 96 tubes/case  |
| 3729 | 0.75mL | 2D Barcoded Open top tubes, w/Duraseals installed, V-bottom   | latch           | 10 racks of 96 tubes/case  |
| 4896 |        | Racks, empty, for use with 0.75mL tubes                       | latch           | 10 racks /case             |
| 3790 | 1.4mL  | 2D Barcoded Open top tubes, V-bottom                          |                 | 1,000/case                 |
| 3791 | 1.4mL  | 2D Barcoded Open top tubes, V-bottom                          | latch           | 10 racks of 96 tubes/case  |
| 3792 | 1.4mL  | 2D Barcoded Open top tubes, V-bottom, sterile                 | latch           | 10 racks of 96 tubes/case  |
| 3801 | 1.4mL  | 2D Barcoded Open top tubes, w/Duraseals installed, V-bottom   | latch           | 10 racks of 96 tubes/case  |
| 3710 | 1.4mL  | 2D Barcoded Open top tubes, V-bottom                          |                 | 960/case                   |
| 3711 | 1.4mL  | Open top tubes with human readable code, flat-bottom          | latch           | 10 racks of 96 tubes/case  |
| 3712 | 1.4mL  | Open top tubes with human readable code, flat-bottom, sterile | latch           | 10 racks of 96 tubes/case  |
| 4890 |        | Racks, empty, for use with 1.4mL tubes                        | latch           | 10 racks /case             |
| 4893 |        | Racks, empty, for use with 1.4mL tubes                        | snap            | 10 racks /case             |
| 3815 | 0.1mL  | 2D Barcoded Open top tubes, flat-bottom                       | 384-tube format | 20 racks of 384 tubes/case |
| 3850 | 1.0mL  | 2D Ceramic Barcoded Open top tubes, flat-bottom               | latch           | 5 racks of 96 tubes/case   |

\*Glass construction ideal for applications requiring enhanced chemical resistance.

**Tube Material:** Virgin Medical Grade Polypropylene

**Septa Cap Material:** Virgin Medical Grade Thermoplastic Elastomer



## Thermo Scientific Matrix Duraseal and SeptraSeal Capping Options

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



SeptaSeal Removal Tool



### Thermo Scientific Matrix DuraSeal and SeptraSeal Capping Options

| Cat. No. | Description                          | Quantity           |
|----------|--------------------------------------|--------------------|
| 4490     | DuraSeal septa                       | Bulk, 500 per case |
| 4463     | SeptaSeal Cap Mat                    | 10 mats of 96/case |
| 4464     | SeptaSeal Cap Mat, sterile           | 10 mats of 96/case |
| 4465     | Pre-split SeptaSeal Cap Mat          | 10 mats of 96/case |
| 4466     | Pre-split SeptaSeal Cap Mat, sterile | 10 mats of 96/case |



Color caps available — see colored capping options

**Septa Cap Material:** Virgin Class VI Medical Grade Thermoplastic Elastomer and Colorants

**Backing Material:** Styrene Butadiene



Thermo Scientific SuperSealer Instrument

## Compatible Products

### Compatible Products

| Cat. No. | Description   |
|----------|---|
| 4110     | Thermo Scientific™ SuperSealer™ for installing SeptaSeal caps |
| 4469     | SeptaSeal Removal Tool  |

### Colored Capping Options

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

\* Not including 3747, 3748

**RED** = red

**YEL** = yellow

**GRE** = green

**WHI** = white (caps only)

**BLU** = blue

**PUR** = purple

**GRY** = gray (septa only)





Nunc External thread Universal Tube

# 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.



Nunc Internal thread Universal Tube



Nunc Low Profile 5.0mL Tube

| Cat. No.  | Volume | Description   | Cap Color | Rack Type      | Quantity                  |
|-----------|--------|---|-----------|----------------|---------------------------|
| 374086    | 0.5mL  | Cryobank 2D Barcoded Screw top tubes, internal thread, sterile                    | Natural   | black, locking | 10 racks of 96 tubes/case |
| 374027    | 0.5mL  | Cryobank 2D Barcoded Screw top tubes, internal thread, sterile                    | Green     | black, locking | 10 racks of 96 tubes/case |
| 374026    | 0.5mL  | Cryobank 2D Barcoded Screw top tubes, internal thread, sterile                    | Red       | black, locking | 10 racks of 96 tubes/case |
| 374025    | 0.5mL  | Cryobank 2D Barcoded Screw top tubes, internal thread, sterile                    | Blue      | black, locking | 10 racks of 96 tubes/case |
| 374088    | 1.0mL  | Cryobank 2D Barcoded Screw top tubes, internal thread, sterile                    | Natural   | black, locking | 10 racks of 96 tubes/case |
| 374110    | 1.0mL  | Cryobank 2D Barcoded Screw top tubes, internal thread, sterile                    | Green     | black, locking | 10 racks of 96 tubes/case |
| 374120    | 1.0mL  | Cryobank 2D Barcoded Screw top tubes, internal thread, sterile                    | Red       | black, locking | 10 racks of 96 tubes/case |
| 374130    | 1.0mL  | Cryobank 2D Barcoded Screw top tubes, internal thread, sterile                    | Blue      | black, locking | 10 racks of 96 tubes/case |
| 374500-BR | 1.8mL  | 2D Barcoded Screw top tubes, external thread white patch, graduations, sterile    | Natural   | latch          | 10 racks of 48 tubes/case |
| 374502    | 1.8mL  | 2D Barcoded Screw top tubes, external thread white patch, graduations, sterile    | Natural   |                | Bulk, 480                 |
| 374502    | 1.8mL  | 2D Barcoded Screw top tubes, external thread white patch 1D, graduations, sterile | Natural   |                | Bulk, 480                 |
| 374510-BR | 2.0mL  | 2D Barcoded Screw top tube, internal thread white patch, graduations, sterile     | Natural   | latch          | 10 racks of 48 tubes/case |
| 374512    | 2.0mL  | 2D Barcoded Screw top tube, internal thread white patch, graduations, sterile     | Natural   |                | Bulk, 480                 |
| 374221-BR | 2.0mL  | Cryobank Screw top tubes, internal thread sterile                                 | Natural   | latch          | 10 racks of 48 tubes/case |
| 374258    | 2.0mL  | Cryobank 2D Barcoded Screw top tubes, internal thread sterile                     | Natural   |                | 20 bags of 48 tubes/case  |
| 374220-BR | 5.0mL  | Cryobank 2D Barcoded Screw top tubes, internal thread sterile                     | Natural   | latch          | 10 racks of 48 tubes/case |
| 374261    | 5.0mL  | Cryobank 2D Barcoded Screw top tubes, internal thread sterile                     | Natural   |                | 11 bags of 48 tubes/case  |
| 374320-BR | 5.0mL  | Low profile 2D Barcoded top tubes, external thread white patch, sterile           | Natural   | latch          | 10 racks of 96 tubes/case |
| 374322    | 5.0mL  | Low profile 2D Barcoded top tubes, external thread white patch, sterile           | Natural   |                | Bulk, 240                 |



Nunc internal thread universal tube racked



Nunc External Thread tube racked



Nunc Low Profile 5.0mL Tube racked



Nunc Cryobank Tubes in black locking rack



## What value do you put on trust?

For 40 years, researchers have trusted the Thermo Scientific™ storage tube portfolio for safe sample storage, even in the harshest cold storage conditions. Our Thermo Scientific™ Cryotube™ products are designed, engineered and manufactured with quality in mind. Your samples benefit from:

- \* High sterility assurance level
- \* Strict quality control standards
- \* IATA testing on most products
- \* DNase, RNase, Endotoxin, Pyrogen Free

The result is reliable sample integrity, designed to enable scientists to reach breakthroughs. Place your samples in the hands of someone you trust - let us be your parachute.

Find out more at [thermofisher.com/samplestorage](http://thermofisher.com/samplestorage)

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