

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.

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.



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

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
BLU = blue

YEL = yellow
PUR = purple

GRE = green
GRY = gray (septa only)

WHI = white (caps 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

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