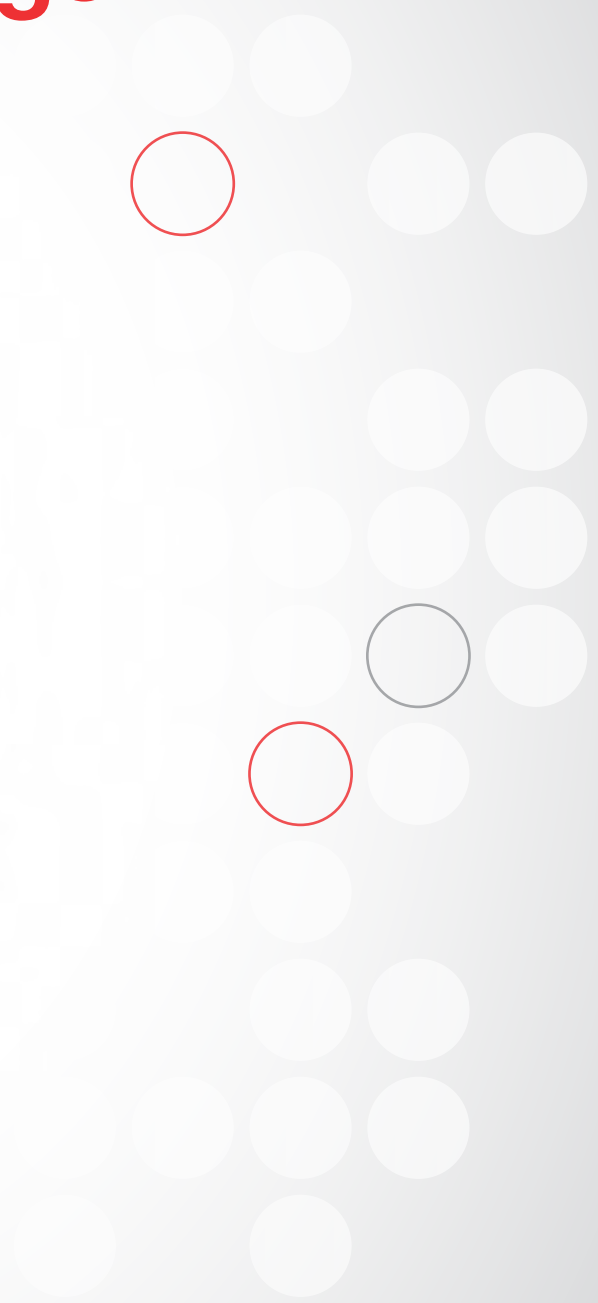


Secure sample storage





What value do you place on trust?

As you work to advance the edge of scientific knowledge, we commit to being your trusted supply partner every step of the way.

For a better tomorrow, and a brighter future.

We are here.

Contents

Sample storage workflow	3
Quality standards	5
Temperature guide	6
Brand comparison	7
Sample tracking	8
Sample storage tubes	11
Storage equipment	23
Virtual reality tools	27

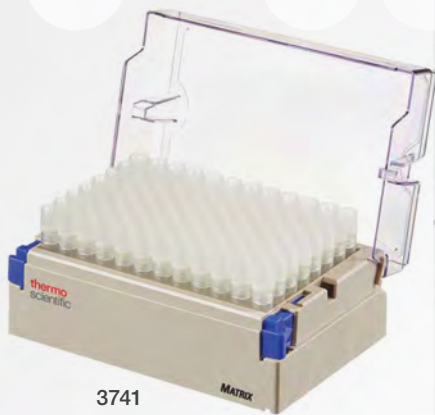


Sample storage workflow

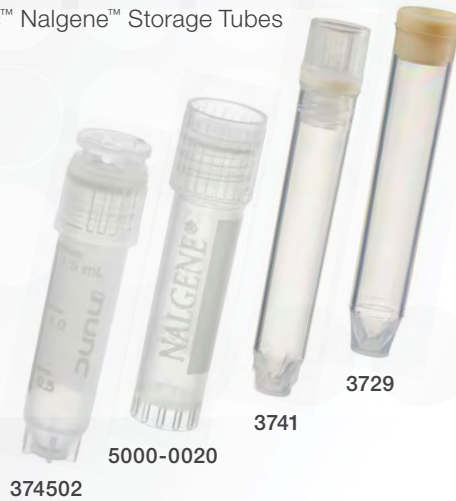
Complete your workflow with some of the most popular products in the Thermo Scientific™ Sample Storage portfolio.

1 Collect

Thermo Scientific™ Matrix™ Storage Tubes
Thermo Scientific™ Nunc™ Universal Storage Tubes
Thermo Scientific™ Nalgene™ Storage Tubes



3741



374502

5000-0020

3741

3729

2 Process

Thermo Scientific™ Nunc™ and Abgene™ Storage Plates

Thermo Scientific™ E1-ClipTip™ Equalizer electronic pipette



4671100BT

AB-0661

6 Store

Thermo Scientific™ Nunc™ Universal Latch Racks
Thermo Scientific™ Matrix™ 2D Barcoded Storage Racks
Thermo Scientific™ Nunc™ Cryobank and Bank-It™ Freezer Racks
Thermo Scientific™ CryoBoxes™
Thermo Scientific™ TSX Series Ultra-Low Freezers



TSX50086A



340061



4900-BR



3 Cap/Seal

Caps and Cap Trays for Thermo Scientific™ Matrix™ and Nunc™ ScrewTop Storage Tubes

Thermo Scientific™ Matrix™ SepraSeal Mats

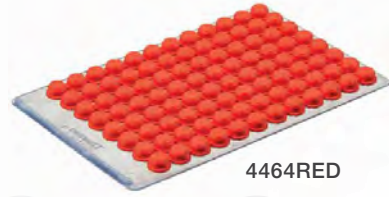
Thermo Scientific™ Capit-All™ Screw Cap Tube Capper/Decapper

Thermo Scientific™ 8-Channel Screw Cap Decapper

Thermo Scientific™ ALPS5000 Automated Plate Heat Sealers



4477BLU



4464RED



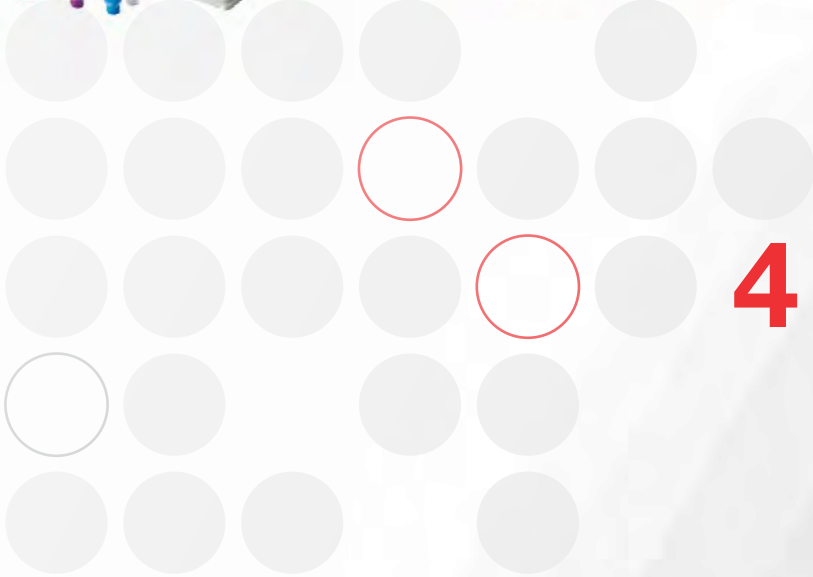
4111MAT



AB-5000



4105NUN



4 Label

Thermo Scientific™ Matrix™ and Nunc™ Tri-Coded Storage Tubes

Thermo Scientific™ Matrix™ and Nunc™ 2D Barcoded Storage Tubes



374502NOV

3741-WP1D-BR

5 Track

Thermo Scientific™ VisionMate™ HSX High Speed Barcode Reader

Thermo Scientific™ VisionMate™ ST Single-Tube 2D Barcode Reader



312850



Providing you with quality you can trust

Clean room manufactured with sterility assurance

Thermo Scientific™ Matrix™, Nunc™, and Nalgene™ tubes are produced in an industry-leading ISO Class 7 clean room. They are guaranteed human DNA-free, DNase, RNase-, and PCR inhibitor-free with a sterility assurance level (SAL) of 10^{-3} for Matrix and 10^{-6} for Nunc and Nalgene.

Designed for purpose and performance

Thermo Scientific™ sample storage tubes are designed for your workflow. We have solutions optimized for small labs or for integration with high-throughput automated systems. Our Fit for Purpose designations ensure confidence in the products you use to support your application. We can provide off-the-shelf offerings, or a custom solution designed specifically for you.

Guaranteed quality

When you partner with us, your products and packaging will be built to stringent quality standards. These include leak-testing each tube to help ensure integrity and sample security. Every 2D barcode is checked against the database of all previous Thermo Fisher Scientific 2D barcodes to help ensure zero duplicates.

Virgin polypropylene material

For over 60 years, Thermo Fisher Scientific has been a leader in plastics and polymer-engineering expertise. Our high-quality tubes are manufactured with strict quality control using only virgin medical-grade polypropylene resins tested and meeting the USP <661.1> plastic materials of construction.

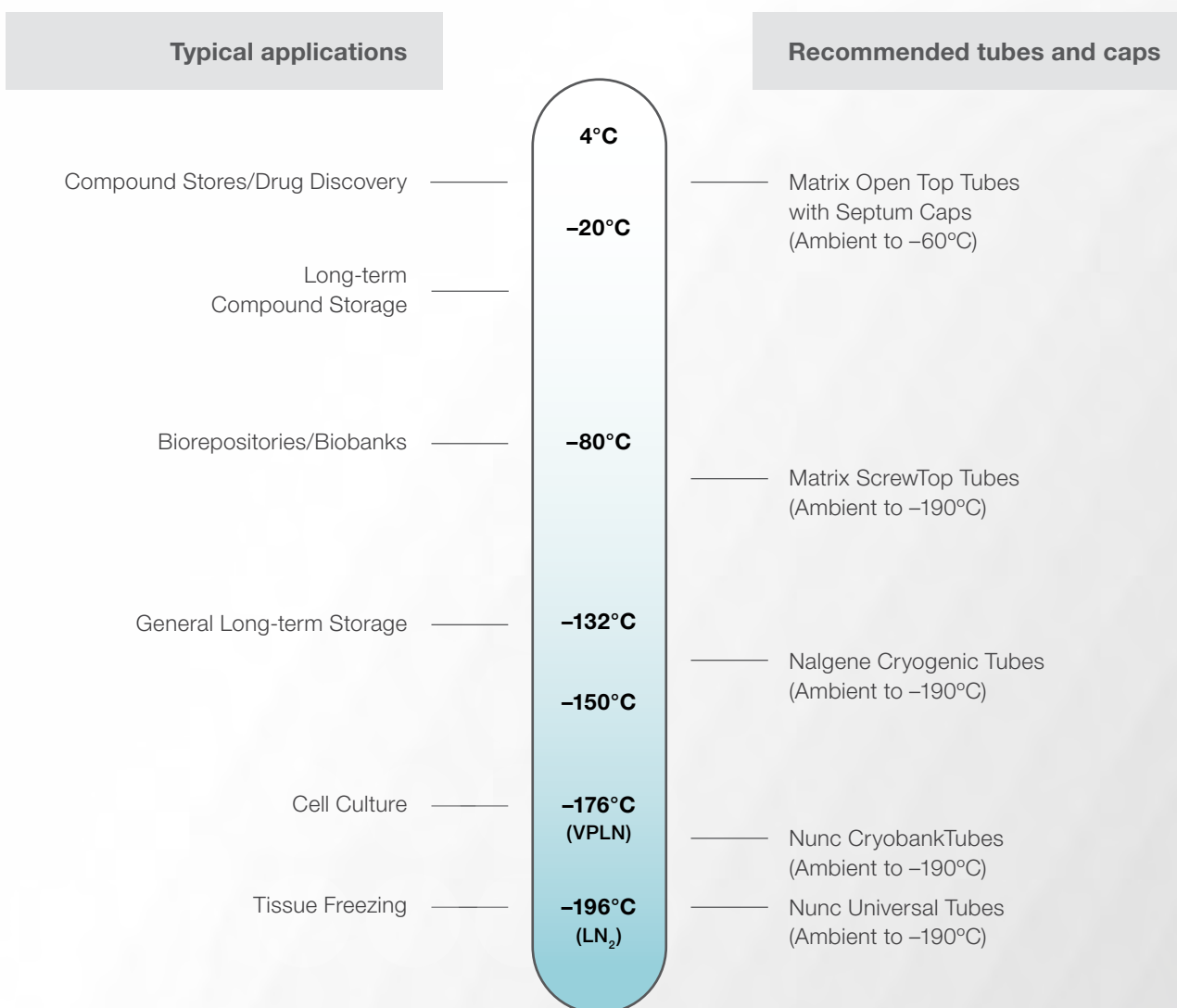


Finnpipette™ F1 Multichannel Pipette (4661070N) into Matrix .5 mL tubes (3744-BR)

Sample storage temperature guide

Thermo Scientific tubes and caps designed with your application temperatures in mind.

























For decades, researchers have trusted Thermo Scientific for safe storage of their samples, even in the harshest, low temperature conditions. Thermo Scientific Cryotubes are designed and manufactured to deliver high-quality performance. The result is reliable sample integrity across a range of storage temperatures over the lifetime of the stored sample.






Note: For direct storage in liquid nitrogen, both Nunc and Nalgene cryogenic tubes should be enclosed in Thermo Scientific™ CryoFlex™ tubing.

Solutions for sample storage

Explore the offerings of the Matrix, Nunc, and Nalgene cryotube portfolios to identify which tube is right for every step of your workflow.

Brand comparison			
	Matrix	Nunc	Nalgene
Leakproof			
DNase-, RNase-, endotoxin-, pyrogen-free			
1D/HR tubes side option			
2D barcode tube bottom			
Automation compatible			
Med device (IVD) options			
Internal thread			
External thread			
Country of manufacture	USA	USA, Denmark, China, Mexico	USA
Manufacturing environment	Class 7 Clean Room	Class 7 Clean Room; Controlled Environment	Class 7 Clean Room

 = ALL TUBES  = SOME TUBES  = NOT AT THIS TIME

Everything you need to protect and track your samples

Off-the-shelf and custom products available.

We deliver a broad range of off-the-shelf solutions to fit the unique needs of your laboratory. Our products help ensure long-term protection of samples, error-free sample identification for secure traceability, and reliable compatibility with automated workflow systems. In addition to our standard products, we offer custom solutions that best suit the requirements of your application and processes.



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 for buying, printing, and applying labels



Thermo Scientific 2D storage offering

HIGH

THROUGHPUT

LOW



Capping Equipment

Consumables

Barcode Readers



Thermo Scientific cryogenic storage tubes

Great breakthroughs come in small packages.

Tube type	Key/differentiating features	Available options
<p>Matrix ScrewTop Storage Tubes</p> 	<ul style="list-style-type: none"> • Ideal for biobanking • Recommended for use at ambient temperatures to -190°C • Designed for integration with automated systems • Internal thread • ANSI-format latch racks <p>Further details on page 13–14</p>	<ul style="list-style-type: none"> • Sterile (standard) or non-sterile • Clear or amber tubes • Capped or uncapped • Racked or bulk • Barcoded racks • Empty racks • Clear or colored caps • Cap trays • Custom-etched barcoded racks
<p>Matrix Open-Top Storage Tubes</p> 	<ul style="list-style-type: none"> • Ideal for compound storage • Recommended for use at ambient temperatures to -60°C • Optimized storage tube and rack designs for use with septum caps • Blank and alphanumeric tube options • Compatible with the full portfolio of Thermo Scientific SeptraSeal and DuraSeal Capping Systems <p>Further details on page 15</p>	<ul style="list-style-type: none"> • Sterile (standard) or non-sterile • Racked or bulk tubes • Barcoded racks • Empty racks • Natural or colored SeptraSeal septum caps • Natural DuraSeal septum caps • Pre-installed septum caps
<p>Nunc Universal 2D Storage Tubes</p> 	<ul style="list-style-type: none"> • Ideal for genomics and cell storage • Recommended for use at ambient temperatures to -190°C • Compatible in manual and automation workflows • ANSI SBS footprint compatible with automation platforms for liquid handling and sample storage • Single-piece molded cap with molded-in gasket <p>Further details on page 16</p>	<ul style="list-style-type: none"> • Sterile (standard) or non-sterile • Internal and external threading • 1D/HR barcode • Available with and without writing patches and gradations • Racked or bulk • Barcoded racks • Empty racks • Clear or colored caps • Color coders for caps • Custom barcoded racks

Tube type**Key/differentiating features****Available options****Nunc 2D Cryobank and Bank-it Tubes**

- Ideal for general long-term storage and transport
- Recommended for use at ambient temperatures to -190°C in the vapor phase of liquid nitrogen
- Available in space-conscious microplate format racks
- Compatible with the complete line of 2D barcode readers, capping/decapping equipment
- Low-binding surface for maximum sample recovery

- Sterile (standard) or non-sterile
- Laser-etched 2D barcodes
- Tubes available with and without writing patches and gradations
- Racked or bulk
- Lock-in racks or standard latch racks
- Barcoded racks
- Empty racks
- Clear or colored caps

Further details on page 17

Nunc Biobanking and Cell Culture Cryogenic Tubes

- Ideal for biobanking and cell culture
- Recommended for use at ambient temperatures to -190°C in the vapor phase of liquid nitrogen
- Single-piece molded cap with molded-in gasket cannot be overtightened in automation equipment

- Sterile (standard) or non-sterile
- Internal and external threading
- Anti-rotation and/or self standing tube bottom
- Tubes available with and without writing patches and gradations
- 1D/HR barcode options
- Clear or colored caps

Further details on page 18

Nalgene General Long-Term Storage Cryogenic Tubes

- Ideal for general long-term storage, and research
- Recommended for use at ambient temperatures to -190°C in the vapor phase of liquid nitrogen
- Large writing areas and graduation for increased visibility

- Sterile (standard) or non-sterile
- Tubes available with and without writing patches and gradations
- 1D/HR barcode options
- Bulk packs for high-throughput workflows

Further details on page 19

Matrix 2D Barcoded ScrewTop Tubes

Ideal for biobanking.

Recommended for use at ambient temperatures to -190°C



Cat. No.	Thread	Total Capacity mL	Working Volume mL	Bottom Style	Sterile	Tube Color	Cap Color	Writing Area	Rack Style	Barcode on Rack	Packaging QTY	
											Rack	Case
3747	Internal	0.2	0.154	V	Yes	clear	clear				Bulk	480
3748	Internal	0.2	0.154	V	Yes	clear	clear		Latch		96	480
3748-BR	Internal	0.2	0.154	V	Yes	clear	clear		Latch	1D/2D/HR	96	480
3743	Internal	0.5	0.45	V	Yes	clear					Bulk	480
3743AMB	Internal	0.5	0.45	V	Yes	amber	red		Latch		96	480
3743AMB-BR	Internal	0.5	0.45	V	Yes	amber	red		Latch	1D/2D/HR	96	480
3744	Internal	0.5	0.45	V	Yes	clear			Latch		96	480
3744-BR	Internal	0.5	0.45	V	Yes	clear			Latch	2D/1D/HR	96	480
3744-WP	Internal	0.5	0.45	V	Yes	clear	clear*	Yes	Latch		96	480
3744-WP-BR	Internal	0.5	0.45	V	Yes	clear	clear*	Yes	Latch	2D/1D/HR	96	480
3745	Internal	0.5	0.45	V	Yes	clear	no cap		Latch		96	480
3745-BR	Internal	0.5	0.45	V	Yes	clear	no cap		Latch	2D/1D/HR	96	480
3745AMB-BR	Internal	0.5	0.45	V	Yes	amber	no cap		Latch	2D/1D/HR	96	480
3746	Internal	0.5	0.45	V	Yes	clear	no cap				Bulk	1,000
3740	Internal	1.1	1.0	V	Yes	clear			Latch		Bulk	480
3741	Internal	1.1	1.0	V	Yes	clear			Latch		96	480
3741-BR	Internal	1.1	1.0	V	Yes	clear			Latch	2D/1D/HR	96	480
3741-WP	Internal	1.1	1.0	V	Yes	clear	clear*	Yes	Latch		96	480
3741-WP-BR	Internal	1.1	1.0	V	Yes	clear	clear*	Yes	Latch	2D/1D/HR	96	480
3741AMB	Internal	1.1	1.0	V	Yes	amber	red		Latch		96	480
3741AMB-BR	Internal	1.1	1.0	V	Yes	amber	red		Latch	2D/1D/HR	96	480
3742	Internal	1.1	1.0	V	Yes	clear	no cap		Latch		96	480
3742-BR	Internal	1.1	1.0	V	Yes	clear	no cap		Latch	2D/1D/HR	96	480
3742-WP	Internal	1.1	1.0	V	Yes	clear	no cap	Yes	Latch		96	480
3742-WP-BR	Internal	1.1	1.0	V	Yes	clear	no cap	Yes	Latch	2D/1D/HR	96	480
3742AMB	Internal	1.1	1.0	V	Yes	amber	no cap		Latch		96	480
3742AMB-BR	Internal	1.1	1.0	V	Yes	amber	no cap		Latch	2D/1D/HR	96	480
3770	Internal	12.0	11.0	U	Yes	clear	clear**		Snap Lid		Bulk	100
3774	Internal	12.0	11.0	U		clear	clear**		Snap Lid		24	96
3775	Internal	12.0	11.0	U	Yes	clear	clear**		Snap Lid		24	96
3776	Internal	12.0	11.0	U		clear	clear**		Snap Lid		24	96
3777	Internal	12.0	11.0	U		clear	clear**		Snap Lid		24	96
3778	Internal	12.0	11.0	U	Yes	clear	no cap		Snap Lid		24	96

Color caps available; see colored capping options. **Material:** All virgin medical-grade polypropylene. **Caps:** Polypropylene with colorants and molded-in TPE gasket.
 * Catalog item with a colored cap available as a special order item; minimum order quantities apply. Not suitable to store samples submerged in liquid nitrogen (LN₂).
 ** Caps come with o-ring, not molded in TPE gasket.

Matrix Tri-coded (2D tube bottom, 1D/HR tube side) ScrewTop Tubes

Ideal for biobanking.

Recommended for use at ambient temperatures to -190°C



Cat. No.	Thread	Total Capacity mL	Working Volume mL	Bottom Style	Sterile	Cap Color	Rack Style	Barcode on Rack	Packaging QTY	
									Rack	Case
3742NS-WP1D	Internal	1.1	1.0	V		no cap			96	480
3743-WP1D	Internal	0.5	0.45	V	Yes	clear*			Bulk	480
3744-WP1D	Internal	0.5	0.45	V	Yes	clear*	Latch		96	480
3744-WP1D-BR	Internal	0.5	0.45	V	Yes	clear*	Latch	2D/1D/HR	96	480
3744NS-WP1D-BR	Internal	0.5	0.45	V		clear*	Latch	2D/1D/HR	96	480
3745-WP1D	Internal	0.5	0.45	V	Yes	no cap	Latch		96	480
3745-WP1D-BR	Internal	0.5	0.45	V	Yes	no cap	Latch	2D/1D/HR	96	480
3745NS-WP1D-BR	Internal	0.5	0.45	V		no cap	Latch	2D/1D/HR	96	480
3740-WP1D	Internal	1.1	1.0	V	Yes	clear*			Bulk	480
3741-WP1D	Internal	1.1	1.0	V	Yes	clear*	Latch		96	480
3741-WP1D-BR	Internal	1.1	1.0	V	Yes	clear*	Latch	2D/1D/HR	96	480
3741NS-WP1D-BR	Internal	1.1	1.0	V		clear*	Latch	2D/1D/HR	96	480
3742-WP1D	Internal	1.1	1.0	V	Yes	no cap	Latch		96	480
3742-WP1D-BR	Internal	1.1	1.0	V	Yes	no cap	Latch	2D/1D/HR	96	480

* Catalog item with a colored cap available as a special order item; minimum order quantities apply. Not suitable to store samples submerged in liquid nitrogen (LN₂).

Compatible Brand	Cat. No.	Thread	Sterile	Color	Compatible Tubes	Packaging QTY	
						Rack or Pack	Case
Matrix ScrewTop	4470	Internal	Yes		0.5 mL, 1 mL	Bulk	500
	4477	Internal	Yes		0.5 mL, 1 mL	96	480
	4906	Empty Cap Tray	Yes		0.5 mL, 1 mL		5

Matrix 2D Open-Top Tubes

Ideal for compound storage.



Recommended for use at ambient temperatures to -60°C.

Cat. No.	Thread Style / Closure	Total Capacity mL	Working Volume mL	Bottom Style	Sterile	Barcode on Tube	Pre-installed DuraSeal	Rack Style	Barcode on Rack	Packaging QTY	
										Rack	Case
3725	septa	0.5	0.34	V	Yes	2D/HR		Latch		96	960
3734	septa	0.5	0.34	V		2D		Latch		96	960
3735	septa	0.5	0.34	V	Yes	2D		Latch		96	960
3736	septa	0.5	0.34	V		2D	Yes	Latch		96	960
3737	septa	0.5	0.34	V	Yes	2D	Yes	Latch		96	960
3750	septa	0.5	0.34	V		2D				Bulk	960
3729	septa	0.75	0.64	V	Yes	2D	Yes	Latch		96	960
3730-11	septa	0.75	0.64	V		2D				Bulk	1,000
3731-11	septa	0.75	0.64	V		2D		Latch		96	960
3732	septa	0.75	0.64	V	Yes	2D		Latch		96	960
3732-BR	septa	0.75	0.64	V	Yes	2D		Latch	2D/1D/HR	96	960
3732-WP1D	septa	0.75	0.64	V	Yes	2D/1D/HR		Latch		96	960
4170	septa	0.75	0.64	U						Bulk	1,000
4271	septa	0.75	0.64	U				Latch		96	960
4272	septa	0.75	0.64	U	Yes			Latch		96	960
4273	septa	0.75	0.64	U		alpha		Latch		96	960
4274	septa	0.75	0.64	U	Yes	alpha		Latch		96	960
3850*	septa	1.0	0.90	V		2D		Latch		96	480
3710	septa	1.4	0.94	F		2D/HR				Bulk	1,000
3711	septa	1.4	0.94	F		2D/HR		Latch		96	960
3712-11	septa	1.4	0.94	F	Yes	2D/HR		Latch		96	960
3712-11-BR	septa	1.4	0.94	F	Yes	2D/HR		Latch	2D/1D/HR	96	960
3790	septa	1.4	0.94	V		2D				Bulk	1,000
3790-WP1D	septa	1.4	0.94	V		2D/1D/HR				Bulk	1,000
3791	septa	1.4	0.94	V		2D		Latch		96	960
3791-BR	septa	1.4	0.94	V		2D		Latch	2D/1D/HR	96	960
3791-WP1D	septa	1.4	0.94	V		2D/1D/HR		Latch		96	960
3791-WP1D-BR	septa	1.4	0.94	V		2D/1D/HR		Latch	2D/1D/HR	96	960
3792	septa	1.4	0.94	V	Yes	2D		Latch		96	960
3792-BR	septa	1.4	0.94	V	Yes	2D		Latch	2D/1D/HR	96	960
3792-WP1D	septa	1.4	0.94	V	Yes	2D/1D/HR		Latch		96	960
3792-WP1D-BR	septa	1.4	0.94	V	Yes	2D/1D/HR		Latch	2D/1D/HR	96	960
3794	septa	1.4	0.94	V		2D		Latch		96	960
3801	septa	1.4	0.94	V		2D	Yes	Latch		96	960
4140	septa	1.4	0.94	U						Bulk	1,000
4247	septa	1.4	0.94	U				Latch		96	960
4248	septa	1.4	0.94	U	Yes			Latch		96	960
4249	septa	1.4	0.94	U				Refill		96	960
4250	septa	1.4	0.94	U	Yes			Refill		96	960
4147	septa	1.4	0.94	U		alpha		Latch		96	960
4148-11	septa	1.4	0.94	U	Yes	alpha		Snap		96	960
4251	septa	1.4	0.94	U		alpha		Latch		96	960
4252-11	septa	1.4	0.94	U	Yes	alpha		Latch		96	960
4253	septa	1.4	0.94	U		alpha		Refill		96	960

* Glass construction ideal for applications requiring enhanced chemical resistance.

Tube material: virgin medical-grade polypropylene. **Septa cap material:** virgin medical-grade thermoplastic elastomer.

Not suitable to store samples submerged in liquid nitrogen (LN₂).

Matrix Open-Top and Nunc capping options





Thermo Scientific™ Matrix™ SepraSeal™ septa enable individual tube capping plus the ability to apply 96 septa at once and store at temperatures down to –60°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 –80°C.



Compatible Products

Cat. No.	Description
4469	SepraSeal Cap Removal Tool

Caps and Cap Trays

Compatible Brand	Cat. No.	Thread	Sterile	Color	Compatible Tubes mL	Packaging QTY	
						Rack or Pack	Case
Matrix OpenTop	4490	DuraSeal Septa			0.5, 0.75, 1.0, 1.4	Bulk	500
	4463	SepraSeal Cap Mat			0.5, 0.75, 1.0, 1.4	96	960
	4464	SepraSeal Cap Mat	Yes		0.5, 0.75, 1.0, 1.4	96	960
	4465	Pre-split SepraSeal Cap Mat			0.5, 0.75, 1.0, 1.4	96	960
	4466	Pre-split SepraSeal Cap Mat	Yes		0.5, 0.75, 1.0, 1.4	96	960
Nunc CryoBank	374017	Internal	Yes	clear	0.5, 1	96	960
	374018	Internal	Yes	green	0.5, 1	96	960
	374019	Internal	Yes	red	0.5, 1	96	960
	374021	Internal	Yes	blue	0.5, 1	96	960
Nunc	336078	Internal	Yes	clear	1, 2, 4, 5	500, Bulk	2,500
	336081	Internal	Yes	red	1, 2, 4, 5	250, Bulk	2,500
	336088	Internal	Yes	blue	1, 2, 4, 5	250, Bulk	2,500
	336092	Internal	Yes	yellow	1, 2, 4, 5	250, Bulk	2,500
	336094	Internal	Yes	assorted	1, 2, 4, 5	250, Bulk	2,500
	363436	Internal	Yes	clear	1, 2, 4, 5	Bulk	2,500
Nunc Universal	381392	Internal	Yes	clear	2	48	240



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

RED = red
BLU = blue

YEL = yellow
PUR = purple

GRE = green
GRY = gray (septas only)

WHI = white (caps only)
PIN = pink (caps only)

ORG = orange (caps only)
BLK = black (caps only)

Nunc Cryobank and Bank-it Tubes

Ideal for general long-term storage and transport.

Recommended for use at ambient temperatures to -190°C



Cat. No.	Thread	Total Capacity mL	Working Volume mL	Bottom Style	Sterile	Barcode on Tube	Cap Color	Writing Area	Rack Style	Barcode on Rack	Storage Density		Packaging QTY	
											Rack	Cryobox	Pack	Case
331851	Internal	0.5	0.4	F	Yes	2D	clear				96		96, bulk	960
374025	Internal	0.5	0.4	F	Yes	2D	blue		Lock-in	1D/HR	96		96	960
374026	Internal	0.5	0.4	F	Yes	2D	red		Lock-in	1D/HR	96		96	960
374027	Internal	0.5	0.4	F	Yes	2D	green		Lock-in	1D/HR	96		96	960
374074	Internal	0.5	0.4	F		2D	clear		Lock-in	1D/HR	96		96	960
374075	Internal	0.5	0.4	F			clear		Lock-in	1D/HR	96		96	960
374080	Internal	0.5	0.4	F	Yes		clear				96		96, bulk	960
374083	Internal	0.5	0.4	F	Yes		clear		Lock-in	1D/HR	96		96	192
374086	Internal	0.5	0.4	F	Yes	2D	clear		Lock-in	1D/HR	96		96	960
374087	Internal	0.5	0.4	F	Yes		clear		Lock-in	1D/HR	96		96	960
374078	Internal	1.0	0.9	F		2D	clear		Lock-in	1D/HR	96	13x13	96	960
374081	Internal	1.0	0.9	F	Yes		clear				96	13x13	96, bulk	960
374084	Internal	1.0	0.9	F	Yes	2D	clear		Lock-in	1D/HR	96	13x13	96	192
374088	Internal	1.0	0.9	F	Yes	2D	clear		Lock-in	1D/HR	96	13x13	96	960
374089	Internal	1.0	0.9	F	Yes		clear		Lock-in	1D/HR	96	13x13	96	960
374110	Internal	1.0	0.9	F	Yes	2D	green		Lock-in	1D/HR	96	13x13	96	960
374115	Internal	1.0	0.9	F	Yes		clear	Yes			96	13x13	845, bulk	845
374120	Internal	1.0	0.9	F	Yes	2D	red		Lock-in	1D/HR	96	13x13	96	960
374130	Internal	1.0	0.9	F	Yes	2D	blue		Lock-in	1D/HR	96	13x13	96	960
374137	Internal	1.0	0.9	F	Yes	2D	clear				96	13x13	96, bulk	960
374221	Internal	2.0	1.8	F	Yes	2D	clear		Latch		48	9x9, 10x10	48	480
374223	Internal	2.0	1.8	F	Yes		clear		Latch		48	9x9, 10x10	48	480
374258	Internal	2.0	1.8	F	Yes	2D	clear				48	9x9, 10x10	48, bulk	960
374259	Internal	2.0	1.8	F	Yes		clear				48	9x9, 10x10	48, bulk	960
374221LOCK	Internal	2.0	1.8	F	Yes	2D	clear		Lock-in	1D/HR	48	9x9, 10x10	48	480
374223-BR	Internal	2.0	1.8	F	Yes		clear		Latch	1D/2D/HR	48	9x9, 10x10	48	480
374220	Internal	5.0	4.5	F	Yes	2D	clear		Latch		48	9x9, 10x10	48	480
374220-BR	Internal	5.0	4.5	F	Yes	2D	clear		Latch	1D/2D/HR	48	9x9, 10x10	48	480
374220LOCK	Internal	5.0	4.5	F	Yes	2D	clear		Lock-in	1D/HR	48	9x9, 10x10	48	480
374222-BR	Internal	5.0	4.5	F	Yes		clear		Latch	1D/2D/HR	48	9x9, 10x10	48	480
374260	Internal	5.0	4.5	F	Yes		clear				48	9x9, 10x10	48, bulk	528
374261	Internal	5.0	4.5	F	Yes	2D	clear				48	9x9, 10x10	48, bulk	528

Cryotubes are not suitable to store samples submerged in liquid nitrogen (LN2) unless stored in Cryoflex tubing (see Sample Prep Accessories)

Nunc Universal Cryotubes

Ideal for cryostorage.

Recommended for use at ambient temperatures to -190°C



**Nunc External Thread
Universal Tube**



**Nunc Internal Thread
Universal Tube**



Nunc Low Profile 5.0 mL Tube

Cat. No.	Thread	Total Capacity mL	Working Volume mL	Bottom Style	Sterile	Barcode on Tube	Cap Color	Writing* Area	Rack Style	Barcode on Rack	Storage Density		Packaging QTY	
											Rack	Cryobox**	Pack	Case
374500	External	1.8	1.5	V	Yes	2D	clear	Yes	Latch		48	9x9, 10x10	48	480
374500-BR	External	1.8	1.5	V	Yes	2D	clear	Yes	Latch	1D/2D/HR	48	9x9, 10x10	48	480
374501	External	1.8	1.5	V	Yes		clear	Yes	Latch		48	9x9, 10x10	48	480
374501-BR	External	1.8	1.5	V	Yes		clear	Yes	Latch	1D/2D/HR	48	9x9, 10x10	48	480
374502	External	1.8	1.5	V	Yes	2D	clear	Yes			48	9x9, 10x10	48, bulk	480
374502NOV	External	1.8	1.5	V	Yes	1D/2D/HR	clear				48	9x9, 10x10	48, bulk	480
374503	External	1.8	1.5	V	Yes		clear	Yes			48	9x9, 10x10	48, bulk	480
374510	Internal	2.0	1.8	V	Yes	2D	clear	Yes	Latch		48	9x9, 10x10	48	480
374510-BR	Internal	2.0	1.8	V	Yes	2D	clear	Yes	Latch	1D/2D/HR	48	9x9, 10x10	48	480
374511	Internal	2.0	1.8	V	Yes		clear	Yes	Latch		48	9x9, 10x10	48	480
374511-BR	Internal	2.0	1.8	V	Yes		clear	Yes	Latch	1D/2D/HR	48	9x9, 10x10	48	480
374512	Internal	2.0	1.8	V	Yes	2D	clear	Yes			48	9x9, 10x10	48, bulk	480
374513	Internal	2.0	1.8	V	Yes		clear	Yes			48	9x9, 10x10	48, bulk	480, bulk
374320	External	5.0	4.5	V	Yes	2D	clear	Yes	Latch		24		24	240
374320-BR	External	5.0	4.5	V	Yes	2D	clear	Yes	Latch	1D/2D/HR	24		24	240
374321	External	5.0	4.5	V	Yes		clear	Yes	Latch		24		24	240
374321-BR	External	5.0	4.5	V	Yes		clear	Yes	Latch	1D/2D/HR	24		24	240
374322	External	5.0	4.5	V	Yes	2D	clear	Yes			24		24, bulk	240
374323	External	5.0	4.5	V	Yes		clear	Yes			24		24, bulk	240

* Writing area includes volume gradation lines

Cryotubes are not suitable to store samples submerged in liquid nitrogen (LN2) unless stored in Cryoflex tubing (see Sample Prep Accessories)

Nunc Biobanking and Cell Culture Cryogenic Tubes

Ideal for biobanking and cell culture.

Recommended for use at ambient temperatures to -190°C



Cat. No.	Thread	Total Capacity mL	Working Volume mL	Bottom Style	Sterile	Barcode on Tube	Cap Color	Anti-Rotation Base	Self-Standing	Writing Area	Storage Density		Packaging QTY	
											Cryobox**	Pack	Case	
264262†	External	0.9	0.5	V	Yes		Clear		Yes	Yes	9x9, 10x10	500	500	
347597	External	1.2	1.0	V	Yes		Clear	Yes	Yes		9x9, 10x10	500	2000	
366656	Internal	1.2	1.0	V	Yes		Clear		Yes	Yes	9x9, 10x10	500	2000	
375353	External	1.2	1.0	V	Yes		Clear	Yes	Yes	Yes	9x9, 10x10	500	2000	
377224	Internal	1.2	1.0	V	Yes		Clear	Yes	Yes	Yes	9x9, 10x10	500	2000	
347627	External	2.0	1.8	U	Yes		Clear	Yes	Yes		9x9, 10x10	450	1800	
363401	Internal	2.0	1.8	U	Yes		Clear			Yes	9x9, 10x10	500	2000	
368632	Internal	2.0	1.8	U	Yes		Clear		Yes	Yes	9x9, 10x10	450	1800	
373420	Internal	2.0	1.8	U	Yes	1D/HR	Clear	Yes	Yes		9x9, 10x10	50	1800	
375418	External	2.0	1.8	U	Yes		Clear	Yes	Yes	Yes	9x9, 10x10	450	1800	
377267	Internal	2.0	1.8	U	Yes		Clear	Yes	Yes	Yes	9x9, 10x10	450	1800	
351934	Internal	2.0	1.8	U			no cap			Yes	9x9, 10x10	500	2500	
373530*	Internal	2.0	1.8	U		1D/HR	Clear	Yes	Yes		9x9, 10x10	50	1800	
264300†	External	2.2	2.0	V	Yes		Clear		Yes	Yes	9x9, 10x10	500	500	
366524	Internal	4.0	3.6	U	Yes		Clear			Yes	9x9, 10x10	400	1600	
379189	Internal	4.0	3.6	U	Yes		Clear	Yes	Yes	Yes	9x9, 10x10	400	1600	
367997	Internal	4.0	3.6	U			no cap			Yes	9x9, 10x10	250	2500	
337516	External	5.0	4.5	U	Yes		Clear	Yes	Yes	Yes	9x9, 10x10	300	1200	
347643	External	5.0	4.5	U	Yes		Clear	Yes	Yes		9x9, 10x10	300	1200	
363452	Internal	5.0	4.5	U	Yes		Clear			Yes	9x9, 10x10	300	1200	
379146	Internal	5.0	4.5	U	Yes		Clear	Yes	Yes	Yes	9x9, 10x10	300	1200	

Cryotubes are not suitable to store samples submerged in liquid nitrogen (LN2) unless stored in Cryoflex tubing (see Sample Prep Accessories)

* Caps included, unassembled.

** Nalgene and Nunc Cryoboxes are validated for Cryotubes of respective Product Family.

† General Storage Tubes, can be used from -40oC to 95oC only.

Nalgene General Long-Term Storage Cryogenic Tubes

Ideal for long-term storage and research.

Recommended for use at ambient temperatures to -190°C



Cat. No.	Thread	Total Capacity mL	Working Volume mL	Bottom Style	Sterile	Barcode on Tube	Cap Color	Anti-Rotation Base	Writing Area*	Storage		Packaging QTY	
										Cryobox**	Pack	Case	
5000-1012	External	1.0	0.9	V	Yes		Clear	Yes	Yes	10x10	25	500	
5000-0012	External	1.2	1.0	V	Yes		Clear	Yes	Yes	9x9	25	500	
5001-0012	External	1.2	1.0	V	Yes	1D/HR	Clear	Yes		9x9	25	500	
5011-0012	External	1.2	1.0	V			Clear	Yes		9x9	1000	1000	
5012-0012	External	1.2	1.0	V	Yes		Clear	Yes	Yes	9x9	1000	1000	
5000-1020	External	1.8	1.5	V	Yes		Clear	Yes	Yes	10x10	25	500	
5001-1020	External	1.8	1.5	V	Yes	1D/HR	Clear	Yes		10x10	25	500	
5000-0020	External	2.0	1.8	V	Yes		Clear	Yes	Yes	9x9	25	500	
5001-0020	External	2.0	1.8	V	Yes	1D/HR	Clear	Yes		9x9	25	500	
5011-0020	External	2.0	1.8	V			Clear	Yes		9x9	1000	1000	
5012-0020	External	2.0	1.8	V	Yes		Clear	Yes	Yes	9x9	1000	1000	
5000-0050	External	5.0	4.5	V	Yes		Clear	Yes	Yes	9x9	10	250	
5001-0050	External	5.0	4.5	V	Yes	1D/HR	Clear	Yes		9x9	10	250	
5005-0015	External	15.0	15.0	F	Yes		Clear				5	75	

Cryotubes are not suitable to store samples submerged in liquid nitrogen (LN2) unless stored in Cryoflex tubing (see Sample Prep Accessories)

* Writing area includes volume gradation lines

** Nalgene and Nunc Cryoboxes are validated for Cryotubes of respective Product Family.



Tube storage accessories

Increased efficiency, decreased cost.

Everything you need to protect and organize your precious samples. Thermo Scientific Cryogenic workflow tools provide a full portfolio of solutions to help safeguard what matters to you most.

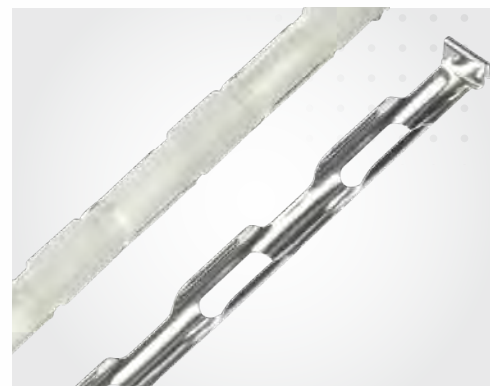
Cryoboxes



Dense storage



Canes



Cryoflex



Cryotube Color Coder Inserts



Cap Trays



Cryoboxes and Racks

Cat. No.	Description	Tube Type	Brand	Total Capacity, mL	Barcode on Rack	Qty/CS
4900	Latch rack, empty	ScrewTop	Matrix	0.5		5
4900-BR	Latch rack, empty	ScrewTop	Matrix	0.5	1D/2D/HR	5
4898-BR	Latch rack, empty	ScrewTop	Matrix	0.5	1D/2D/HR	10
4897	Latch rack, empty	ScrewTop	Matrix	1.0		5
4897-BR	Latch rack, empty	ScrewTop	Matrix	1.0	1D/2D/HR	5
4905	Latch rack, empty	ScrewTop	Matrix	12.0		4
4899	Latch racks for tubes with DuraSeals, empty	Open Top	Matrix	0.5		10
4896	Latch racks, empty	Open Top	Matrix	0.75		10
4903	Latch rack, lids	Open Top	Matrix	0.75		10
4890	Latch racks, empty	Open Top	Matrix	1.4		10
4893	Snap racks, empty	Open Top	Matrix	1.4		10
4902	Latch rack, lids	Open Top	Matrix	1.4		10
331840	LP 5mL Empty Rack with Lid, 10/cs		NUNC			10
331840-BR	Nunc Univ BC Rack Empty LP 5.0mL		NUNC			10
534592	CRYOTUBE TRNSPT CONT 10/TUBES		NUNC			200

Cryoboxes and Racks (continued)

Cat. No.	Description	Compatible brand	Qty/CS
331825	Latch Rack 2mL Cryobank, NS 10/cs	NUNC	24
331825-BR	Nunc Univ Cryobank BC Rack Empty 2.0mL	NUNC	10
331826	Latch Rack 5mL Cryobank, NS 10/cs	NUNC	10
331826-BR	Nunc Univ Cryobank BC Rack Empty 5.0mL	NUNC	10
331827	Latch Rack Stft Tubes, Short Lid, NS 10/cs	NUNC	10
331827-BR	Nunc Univ BC Rack Empty 1.0 - 2.0mL Cryo	NUNC	10
331828	Latch Rack Stft Tubes, Tall Lid, NS 10/cs	NUNC	10
331828-BR	Nunc Univ BC Rack Empty 3.6 - 5.0mL Cryo	NUNC	10
331830	Uni Rack for 1.8mL Ext Tube	NUNC	10
331830-BR	Nunc Univ BC Rack Empty Univ 1.8mL EXT	NUNC	10
331835	Uni Rack for 2.0mL Int Tube	NUNC	10
331835-BR	Nunc Univ BC Rack Empty Univ 2.0mL INT	NUNC	10
331840	LP 5mL Empty Rack with Lid, 10/cs	NUNC	10
331840-BR	Nunc Univ BC Rack Empty LP 5.0mL	NUNC	10
331850-BR	Nunc Latch Rack, BIOS compatible	NUNC	10
340053	White Cryobox 100 Tubes 1.0-1.8	NUNC	10
340061	White Cryobox 100 Tubes 3.6-4.5	NUNC	42
341483	MEGA MAX-100 CRYOSTORE BOX PC	NUNC	30
369639	White Cryobox 81 Tubes 1.0-1.8	NUNC	24
369647	White Cryobox 81 Tubes 3.6-4.5	NUNC	48
374187	MAX-100 CRYOSTORE BOX PC	NUNC	30
378220	81 CELL REGULAR	NUNC	24
378247	25 CELL REGULAR	NUNC	6
5025-0505	CRYOBOX 1.2/2ML PC;5X5 ARRAY	Nalgene	24
5026-0909	CRYOBOX 1.2/2ML PC;9X9 ARRAY	Nalgene	48
5026-1010	SYSTEM 100 CRYOVIAL BOX, PC	Nalgene	24
5027-0909	CRYOBOX 5ML PC;9X9 ARRAY	Nalgene	10
5030-0505	SYSTEM 100 CRYOVIAL HLDR,5X5	Nalgene	24
5030-0510	CRYOGENIC VIAL HOLDER, PC	Nalgene	4
5050-0001	STORAGE BOX PC; 51/4X51/4X2IN	Nalgene	4
5050-0169	Plastic Cryobox, 13x13 div, 4/pk; 24/cs	Nalgene	24
5055-5002	MICROCNT TB BX PC;5.25X5.25;.2	Nalgene	24
5055-5005	MICRCNT BX PC;51/4X51/4X2IN	Nalgene	24
5055-5015	MICRCNT BX PC;51/4X51/4X2IN	Nalgene	24
867013-0240	RED CRYOBOX, PC, 9x9	Nalgene	24
867013-0241	YELLOW 9x9 CRYOBOX, PC	Nalgene	24
867013-0242	GREEN 9x9 CRYOBOX, PC	Nalgene	24
867013-0243	BLUE 9x9 CRYOBOX, PC	Nalgene	24
867013-0244	GREY 9x9 CRYOBOX, PC	Nalgene	24
867013-0245	AST CLRDR CRYOBOX, PC AST C	Nalgene	24
376589	CRYOTUBE RACK, GRIPS 40 TUBES	NUNC	15
534479	CRYOTUBE TRNSPT CONT 5/TUBES	NUNC	350
534592	CRYOTUBE TRNSPT CONT 10/TUBES	NUNC	200

Cryocanes

Cat. No.	Description	Compatible brand	Qty/CS
378441	CRYOSTORE CANE, ALUMINUM	NUNC	50
5015-0001	CRYOCANE AL; 5 PLACE	Nalgene	48
5015-0002	CRYOCANE AL;6 PLACE	Nalgene	48
DS5020-0000	CRYOCANE CODER AL; WHITE	Nalgene	100

Cryotube Freezer racks

Cat. No.	Description	Compatible brand	Qty/CS
367000	Nunc Aluminum Cryorack, Natural	NUNC	1
5036-0004	VT CRYOBOX RK SS;4SHF 5.25X2IN	Nalgene	4
5036-0009	VT CRYOBOX RK SS;9SHF 5.25X2IN	Nalgene	4
5038-4322	HZ CRYBX RK,SS;2ML.4X3SHL9X9	Nalgene	2
5038-4422	HZ CRYBX RK,SS;2ML.4X4SHL9X9	Nalgene	2
DS5035-0004	VT CRYOBOX RK SS;4SHF 3X3X2 IN	Nalgene	1
DS5035-0009	VT CRYOBOX RK SS;9SHF 3X3X2 IN	Nalgene	1
DS5037-0004	VT CRYOBOX RK SS;4SHF 5.25X4IN	Nalgene	1
DS5037-0007	VT CRYOBOX RK SS;7SHF 5.25X4IN	Nalgene	1

Cryotube Color Coder Cap Inserts

Cat. No.	Description	Compatible brand	Qty/CS
5045-0000	CRYOGNC CLSR COLOR CD PS; WHT	Nalgene	500
5045-0002	CRYOGNC CLSR COLOR CD,PS;YEL	Nalgene	500
5045-0003	CRYOGNC CLSR COLOR CD PS; BLU	Nalgene	500
5045-0004	CRYOGNC CLOSR COLOR CD PS; GRN	Nalgene	500
5045-0005	CRYO CLSR COLOR CD PS; RED	Nalgene	500
354755	CRYOCOLOR CODE, INSERT WHITE	NUNC	2000
354879	CRYOCOLOR CODE, INSERT BLUE	NUNC	2000
354968	CRYOCOLOR CODE, INSERT RED	NUNC	2000
355018	CRYOCOLOR CODE, INSERT GREEN	NUNC	2000
355077	CRYOCOLOR CODE, INSERT YELLOW	NUNC	2000
355158	CRYOCOLOR CODE, INSERT ORANGE	NUNC	2000
375868	CRYOCOLOR CODE, INSERT BROWN	NUNC	2000
375884	CRYOCOLOR CODE, INSERT PINK	NUNC	2000
375906	CRYOCOLOR CODE, INSERT GRAY	NUNC	2000
375922	CRYOCOLOR CODE, INSERT PURPLE	NUNC	2000
375930	CRYOCOLOR CODE, INSERT ASSORTED	NUNC	2000

Storage equipment

A comprehensive line of storage equipment complements our Matrix and Nunc storage consumables and help provide benefits to your workflow.

Barcode readers

Thermo Scientific™ VisionMate™ Barcode Readers deliver critical tube identification, tracking, and traceability of Matrix and Nunc 2D barcoded storage tubes and barcoded racks. The VisionMate™ product line offers solutions covering a range of throughput needs, from single tubes to entire libraries. User-friendly software provides reliable performance and data export flexibility to fit your sample management needs in benchtop and integrated applications. Our compact readers conserve valuable bench space while providing flexibility for use throughout your laboratory.

VisionMate™ ST



VisionMate™ HSX



VisionMate™ Barcode Readers

Cat. No.	Description
3125	VisionMate™ ST Single-Tube 2D Barcode Reader
312850	VisionMate™ HSX High Speed Barcode Reader

ScrewTop Tube Capper/Decapper

Thermo Scientific capper/decappers support both automated and tool-assisted manual capping and decapping of Matrix and select Nunc storage tubes. These products help ensure that all tubes are capped to the optimal torque level, preventing sample loss and maintaining sample integrity. Safety features prevent incorrect loading of racks and prevent risks of cross-contamination. Design elements and simple interfaces offer additional protection against the repetitive stress injury risk from manual capping and decapping. From partial rack decapping to high-throughput, integrated workflows, Thermo Scientific capper/decappers help provide solutions to the full range of your laboratory needs.

Handheld Capper/Decapper

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

Handheld Capper/Decapper



Capit-All™ Capper/Decapper



Capit-All™ Capper/Decapper

Cat. No.	Description
4111MAT	Capit-All™ 96-Channel ScrewTop Tube Capper/Decapper for use with Matrix tubes
4111MAT-IS	Capit-All™ 96-Channel Automation Friendly ScrewCap Tube Capper/Decapper for use with Matrix tubes
4114NUN	Capit-All™ 48-Channel ScrewTop Tube Capper/Decapper for use with select Nunc tubes
4114NUN-IS	Capit-All™ 48-Channel Automation Friendly ScrewCap Tube Capper/Decapper for use with select Nunc tubes

Sample preparation accessories

Protect your samples at every stage.

Chillers



Thermo Scientific™ Mr. Frosty™ Freezing Container



Pens



Cryoflex Tubing

Cat. No.	Description	Compatible brand	Qty CS
343958	CRYOFLEX TUBING	Nunc	300
5016-0001	CRYOSLEEVE CLEAR PVC	Nalgene	100

Cryopens and Markers

Cat. No.	Description	Compatible brand	Qty CS
5040-0002	CRYOWARE LABELS PLAIN;1X2 IN.	Nalgene	2000
343850	BLACK CRYOPEN MARKERS	Nunc	10
6313-0010	CRYO MARKER SET;4 MARKERS	Nalgene	24
6313-0020	CRYOMARKER, BLACK	Nalgene	24

Mr. Frosty™ Freezing Containers

Cat. No.	Description	Compatible brand	Qty CS
5100-0001	CONTRL RATE FREEZER;1.2/2.0ML	Nalgene	1
5100-0036	CONTROL RATE FREEZER, 3.6ML	Nalgene	1
5100-0050	CONTROL RATE FREEZER, 5.0ML	Nalgene	1

Benchtop Coolers

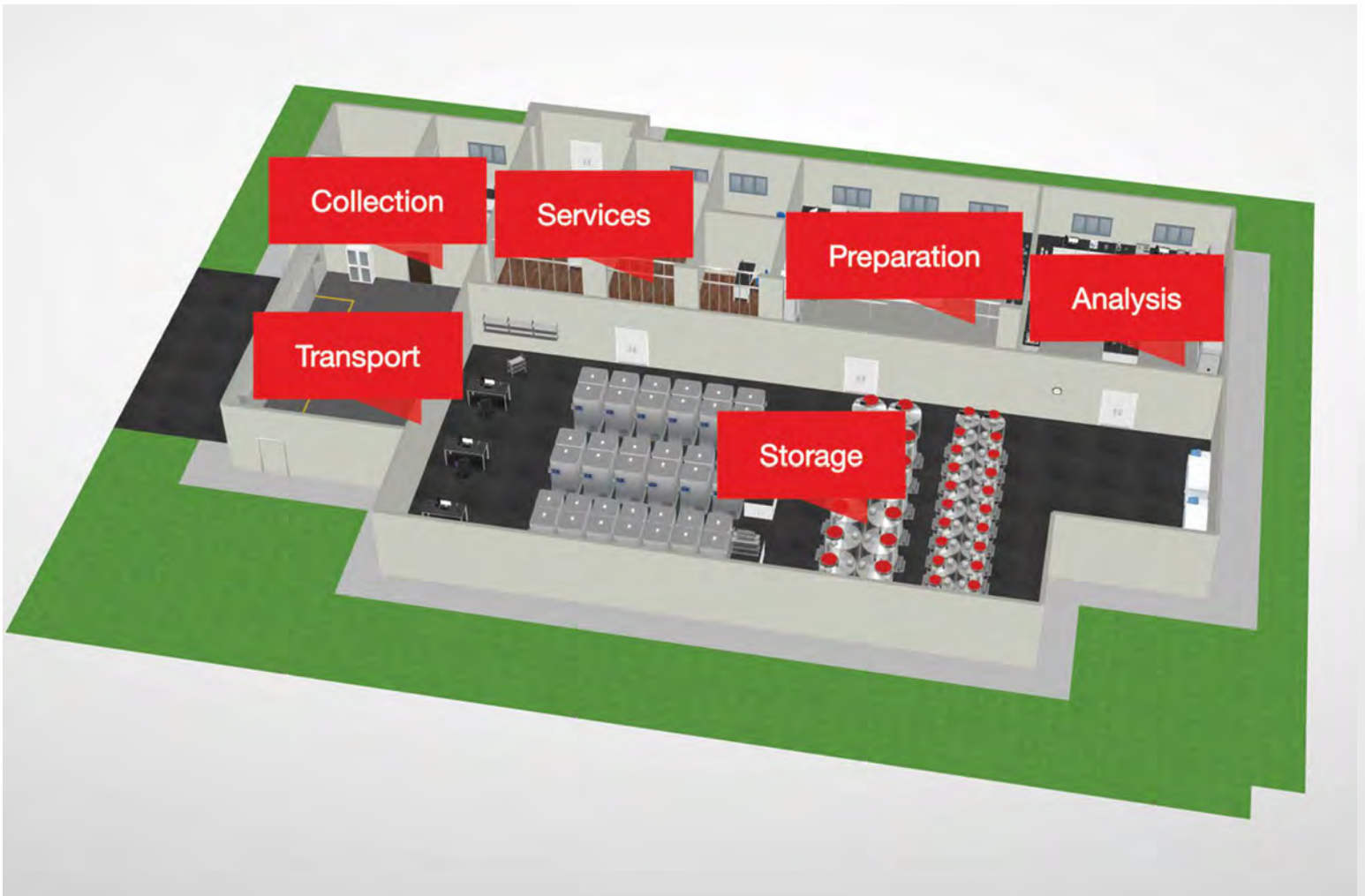
Cat. No.	Description	Compatible brand	Qty CS
5115-0012	LABTOP COOLER,-20 DEG C,PC;12	Nalgene	1
5115-0032	LABTOP COOLER,-20DEG C,PC;32	Nalgene	1
5116-1300	LABTOP COOLR,TT,0 DEG,13MM,PC	Nalgene	1
5116-1600	LABTOP COOLR,TT,0 DEG,16MM,PC	Nalgene	1
355501	CRYTUBE COOLER, -20 C,PC;20PL	Nunc	1
DS5116-0012	LABTOP COOLER,0 C, JR., PC; 12	Nalgene	1
DS5116-0032	LABTOP COOLER,0 DEG C,PC;32	Nalgene	1
DS5114-0012	QUICK CHILL, PC; 12 PLACE	Nalgene	1

Benchtop Dewar Flasks

Cat. No.	Description	Compatible brand	Qty CS
4150-1000	FLASK DEWAR HDPE;1L	Nalgene	4
4150-2000	FLASK DEWAR HDPE;2L	Nalgene	2
4150-4000	FLASK DEWAR HDPE;4L	Nalgene	2
4150-9000	FLASK DEWAR HDPE;10L	Nalgene	1

Virtual reality tools

Explore lab products the interactive way.



Scan the QR code to learn more

Learn more about our Lab Products Virtual Tools and take a tour of our virtual environments, such as biobanking.

Each workflow features an interactive exploration of solutions offered by Thermo Fisher Scientific, illustrating Thermo Fisher's commitment to helping customers achieve their goals faster, no matter where they are in their journey.

The Lab Design Tool allows teams to build the new workflow right into a new or existing lab floor plan, and then visualize it as a 3D interactive experience on screen, in virtual reality, or in augmented reality.

Learn more at thermofisher.com/samplestoragetubes

thermo scientific

This product is intended for General Laboratory Use. It is the customer's responsibility to ensure that the performance of the product is suitable for the customer's specific use or application. © 2023, 2024 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. COL122215 0424