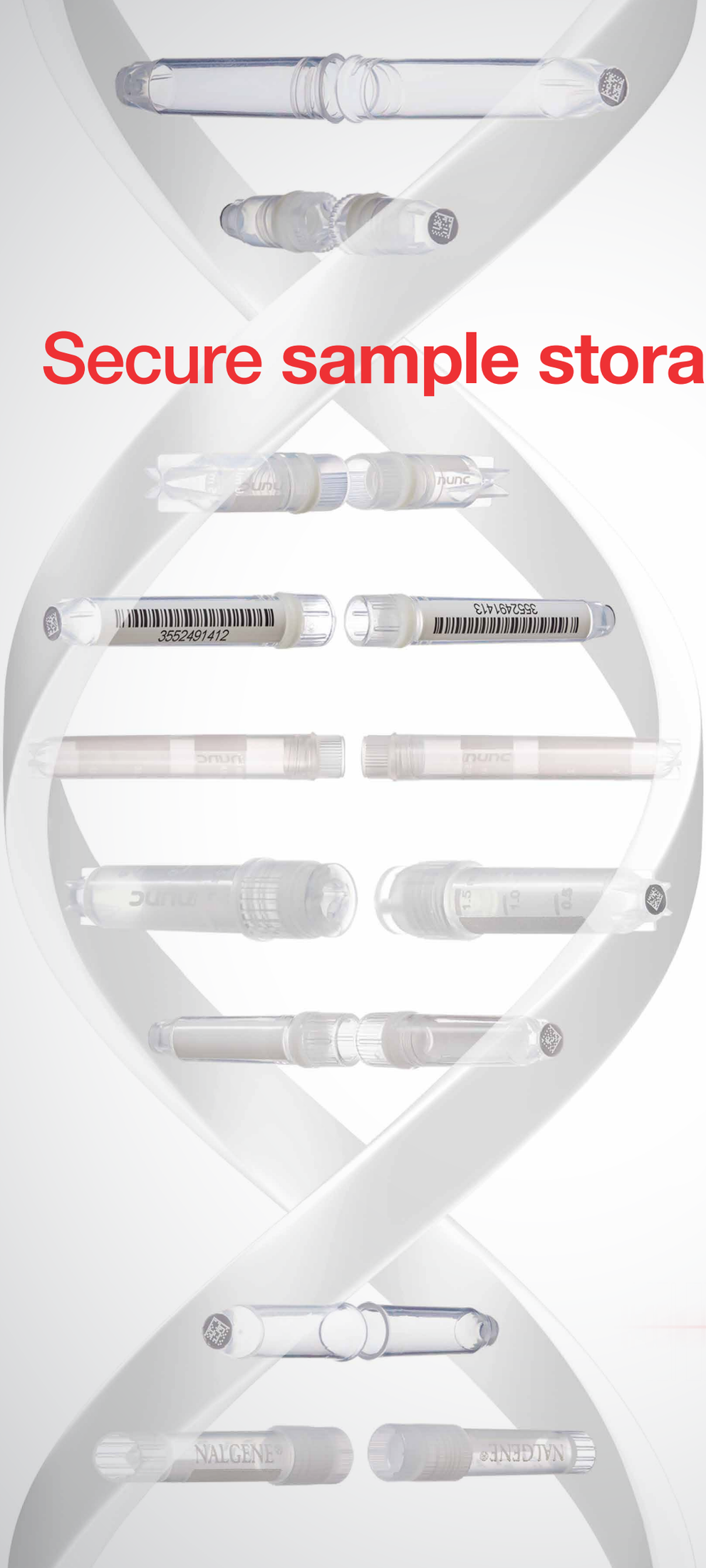
Thermo Fisher SCIENTIFIC

Secure sample storage



thermo scientific

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.

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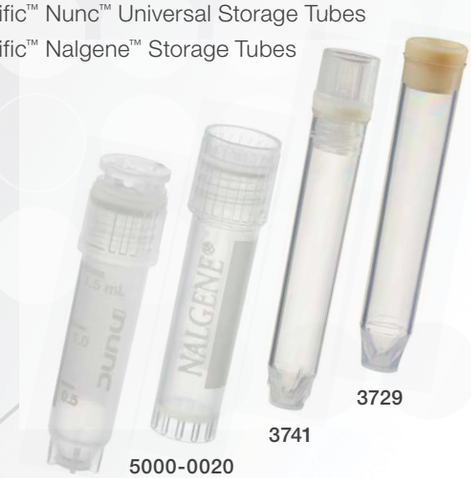
Sample storage workflow

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



2 Process

Thermo Scientific™ Nunc™ and Abgene™ Storage Plates

Thermo Scientific™ E1-ClipTip™ Equalizer electronic pipette

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

4900-BR

340061

3 Cap/Seal

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

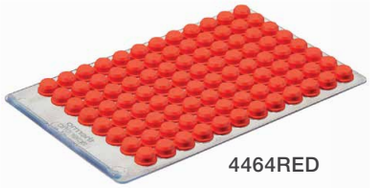
Thermo Scientific™ Matrix™ SepraSeal Mats

Thermo Scientific™ Capit-All™ Flex Automated Decapper

Thermo Scientific™ 8-Channel Screw Cap Decapper

Thermo Scientific™ ALPS5000 Automated Plate Heat Sealers

4477BLU



4464RED

4120-FLEX

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** free of human DNA, DNases, RNases, and PCR inhibitors with a sterility assurance level (SAL) of 10^{-3} for Matrix tubes and 10^{-6} for Nunc and Nalgene tubes.

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 help 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

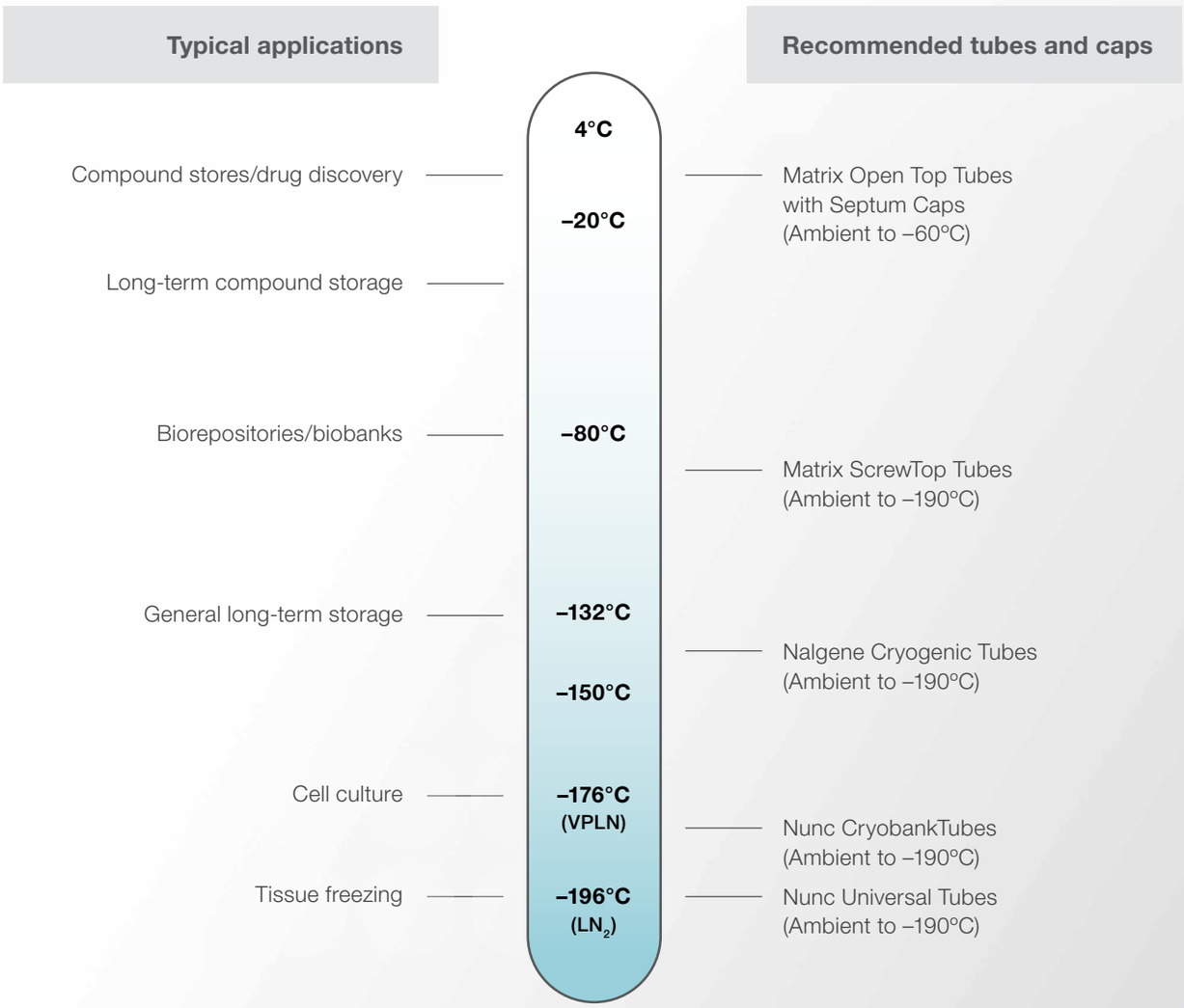
For over 60 years, Thermo Fisher has been a leader in plastics and polymer-engineering expertise. Our high-quality tubes are manufactured with strict quality control using only virgin medical-grade polypropylene resins tested and meeting the USP <661.1> plastic materials of construction guidelines.

Thermo Scientific™ Finnpipette™ F1 Multichannel Pipette (4661070N) into Matrix 0.5 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	ALL TUBES	ALL TUBES	ALL TUBES
DNase-, RNase-, endotoxin-, pyrogen-free	ALL TUBES	ALL TUBES	ALL TUBES
1D/HR tubes side option	ALL TUBES	SOME TUBES	SOME TUBES
2D barcode tube bottom	ALL TUBES	SOME TUBES	NOT AT THIS TIME
Automation compatible	ALL TUBES	SOME TUBES	NOT AT THIS TIME
Med device (IVD) options	NOT AT THIS TIME	SOME TUBES	SOME TUBES
Internal thread	ALL TUBES	SOME TUBES	NOT AT THIS TIME
External thread	NOT AT THIS TIME	SOME TUBES	ALL TUBES
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 can meet 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

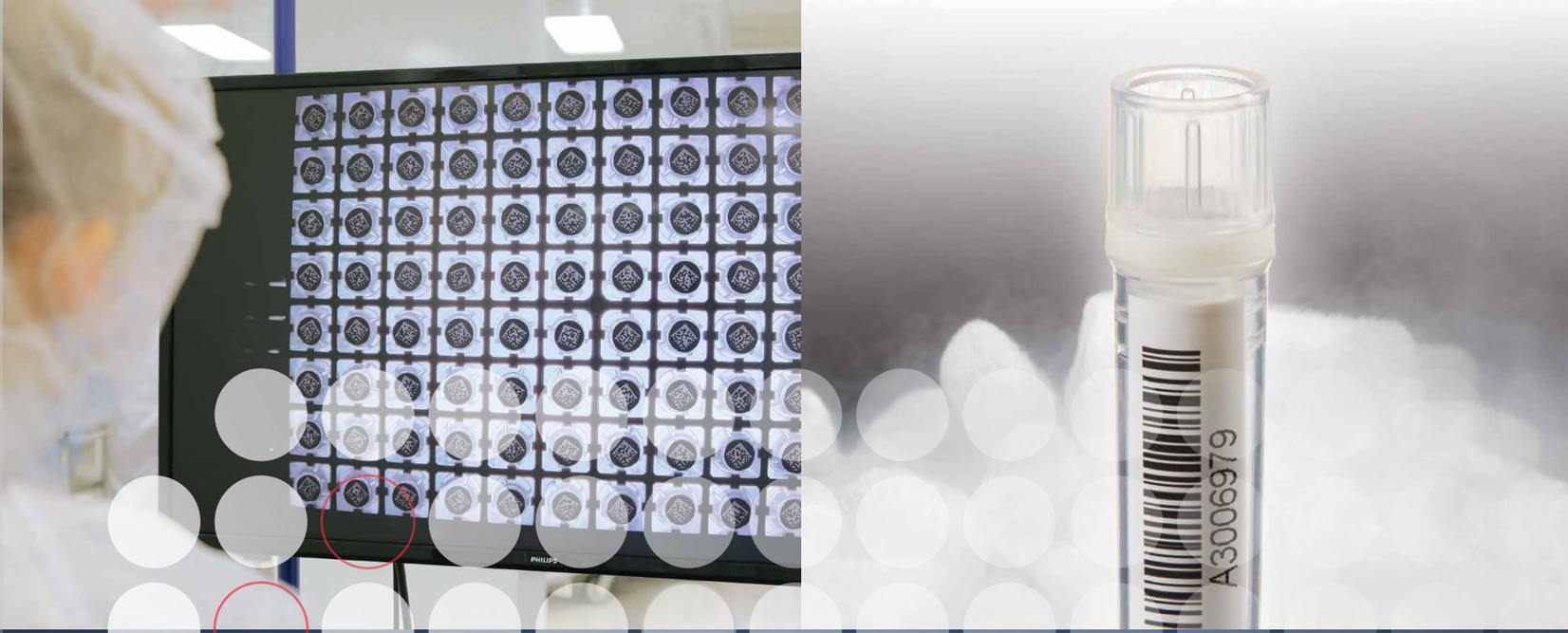
THROUGHPUT

LOW

Capping equipment

Consumables

Barcode readers


PHILIPS
A3006979

2133819882
2133819866
2133890969

Thermo Scientific cryogenic storage tubes

Great breakthroughs come in small packages

Tube type	Key/differentiating features	Available options
Matrix ScrewTop Storage Tubes 	• Excellent choice for biobanking • Recommended for use at ambient temperatures to –190°C • Designed for integration with automated systems • Internal thread • ANSI-format latch racks Further details on page 13–14	• 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
Matrix Open-Top Storage Tubes 	• Excellent choice 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 SepraSeal and DuraSeal Capping Systems Further details on page 15	• Sterile (standard) or non-sterile • Racked or bulk tubes • Barcoded racks • Empty racks • Natural or colored SepraSeal septum caps • Natural DuraSeal septum caps • Preinstalled septum caps
Nunc Universal 2D Storage Tubes 	• Excellent choice 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 Further details on page 16	• 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 	• Excellent choice 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 Further details on page 17	• 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
Nunc Biobanking and Cell Culture Cryogenic Tubes 	• Excellent choice 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 Further details on page 18	• 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
Nalgene General Long-Term Storage Cryogenic Tubes 	• Excellent choice 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 Further details on page 19	• Sterile (standard) or non-sterile • Tubes available with and without writing patches and gradations • 1D/HR barcode options • Bulk packs for high-throughput workflows

Matrix 2D Barcoded ScrewTop Tubes

Excellent choice for biobanking

Recommended for use at ambient temperatures to –190°C

Thread	Total capacity mL	Working volume mL	Bottom style	Sterile	Tube color	Cap color	Writing area	Rack style	Barcode on rack	Packaging qty.		Cat. No.
										Rack	Case	
Internal	0.2	0.154	V	Yes	Clear	Clear				Bulk	480	3747
Internal	0.2	0.154	V	Yes	Clear	Clear		Latch		96	480	3748
Internal	0.2	0.154	V	Yes	Clear	Clear		Latch	1D/2D/HR	96	480	3748-BR
Internal	0.5	0.45	V	Yes	Clear					Bulk	480	3743
Internal	0.5	0.45	V	Yes	Amber	Red		Latch		96	480	3743AMB
Internal	0.5	0.45	V	Yes	Amber	Red		Latch	1D/2D/HR	96	480	3743AMB-BR
Internal	0.5	0.45	V	Yes	Clear			Latch		96	480	3744
Internal	0.5	0.45	V	Yes	Clear			Latch	2D/1D/HR	96	480	3744-BR
Internal	0.5	0.45	V	Yes	Clear	Clear*	Yes	Latch		96	480	3744-WP
Internal	0.5	0.45	V	Yes	Clear	Clear*	Yes	Latch	2D/1D/HR	96	480	3744-WP-BR
Internal	0.5	0.45	V	Yes	Clear	No cap		Latch		96	480	3745
Internal	0.5	0.45	V	Yes	Clear	No cap		Latch	2D/1D/HR	96	480	3745-BR
Internal	0.5	0.45	V	Yes	Amber	No cap		Latch	2D/1D/HR	96	480	3745AMB-BR
Internal	0.5	0.45	V	Yes	Clear	No cap				Bulk	1,000	3746
Internal	1.1	1.0	V	Yes	Clear			Latch		Bulk	480	3740
Internal	1.1	1.0	V	Yes	Clear			Latch		96	480	3741
Internal	1.1	1.0	V	Yes	Clear			Latch	2D/1D/HR	96	480	3741-BR
Internal	1.1	1.0	V	Yes	Clear	Clear*	Yes	Latch		96	480	3741-WP
Internal	1.1	1.0	V	Yes	Clear	Clear*	Yes	Latch	2D/1D/HR	96	480	3741-WP-BR
Internal	1.1	1.0	V	Yes	Amber	Red		Latch		96	480	3741AMB
Internal	1.1	1.0	V	Yes	Amber	Red		Latch	2D/1D/HR	96	480	3741AMB-BR
Internal	1.1	1.0	V	Yes	Clear	No cap		Latch		96	480	3742
Internal	1.1	1.0	V	Yes	Clear	No cap		Latch	2D/1D/HR	96	480	3742-BR
Internal	1.1	1.0	V	Yes	Clear	No cap	Yes	Latch		96	480	3742-WP
Internal	1.1	1.0	V	Yes	Clear	No cap	Yes	Latch	2D/1D/HR	96	480	3742-WP-BR
Internal	1.1	1.0	V	Yes	Amber	No cap		Latch		96	480	3742AMB
Internal	1.1	1.0	V	Yes	Amber	No cap		Latch	2D/1D/HR	96	480	3742AMB-BR
Internal	12.0	11.0	U	Yes	Clear	Clear**		Snap Lid		Bulk	100	3770
Internal	12.0	11.0	U		Clear	Clear**		Snap Lid		24	96	3774
Internal	12.0	11.0	U	Yes	Clear	Clear**		Snap Lid		24	96	3775
Internal	12.0	11.0	U		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	Yes	Clear	No cap		Snap Lid		24	96	3778

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 (LN_2).

** Caps come with o-ring, not molded in TPE gasket.

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

Excellent choice for biobanking

Recommended for use at ambient temperatures to –190°C

Thread	Total capacity mL	Working volume mL	Bottom style	Sterile	Cap color	Rack style	Barcode on rack	Packaging qty.		Cat. No.
								Rack	Case	
Internal	1.1	1.0	V		No cap			96	480	3742NS-WP1D
Internal	0.5	0.45	V	Yes	Clear*			Bulk	480	3743-WP1D
Internal	0.5	0.45	V	Yes	Clear*	Latch		96	480	3744-WP1D
Internal	0.5	0.45	V	Yes	Clear*	Latch	2D/1D/HR	96	480	3744-WP1D-BR
Internal	0.5	0.45	V		Clear*	Latch	2D/1D/HR	96	480	3744NS-WP1D-BR
Internal	0.5	0.45	V	Yes	No cap	Latch		96	480	3745-WP1D
Internal	0.5	0.45	V	Yes	No cap	Latch	2D/1D/HR	96	480	3745-WP1D-BR
Internal	0.5	0.45	V		No cap	Latch	2D/1D/HR	96	480	3745NS-WP1D-BR
Internal	1.1	1.0	V	Yes	Clear*			Bulk	480	3740-WP1D
Internal	1.1	1.0	V	Yes	Clear*	Latch		96	480	3741-WP1D
Internal	1.1	1.0	V	Yes	Clear*	Latch	2D/1D/HR	96	480	3741-WP1D-BR
Internal	1.1	1.0	V		Clear*	Latch	2D/1D/HR	96	480	3741NS-WP1D-BR
Internal	1.1	1.0	V	Yes	No cap	Latch		96	480	3742-WP1D
Internal	1.1	1.0	V	Yes	No cap	Latch	2D/1D/HR	96	480	3742-WP1D-BR

* 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 (LN_2).

Compatible brand	Thread	Sterile	Color	Compatible tubes	Packaging qty.		Cat. No.
					Type	Case	
Matrix ScrewTop	Internal	Yes		0.5 mL, 1 mL	Bulk	500	4470
	Internal	Yes		0.5 mL, 1 mL	96	480	4477
	Empty Cap Tray	Yes		0.5 mL, 1 mL	Cap tray	5	4906

Matrix 2D Open-Top Tubes

Excellent choice for compound storage

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

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

* Glass construction is an excellent choice 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 (LN_2).

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

Description	Cat. No.
SepraSeal Cap Removal Tool	4469

Caps and cap trays

Compatible brand	Thread	Sterile	Color	Compatible tubes mL	Packaging qty.		Cat. No.
					Rack or pack	Case	
Matrix OpenTop	DuraSeal Septa			0.5, 0.75, 1.0, 1.4	Bulk	500	4490
	SepraSeal Cap Mat			0.5, 0.75, 1.0, 1.4	96	960	4463
	SepraSeal Cap Mat	Yes		0.5, 0.75, 1.0, 1.4	96	960	4464
	Pre-split SepraSeal Cap Mat			0.5, 0.75, 1.0, 1.4	96	960	4465
	Pre-split SepraSeal Cap Mat	Yes		0.5, 0.75, 1.0, 1.4	96	960	4466
Nunc CryoBank	Internal	Yes	Clear	0.5, 1	96	960	374017
	Internal	Yes	Green	0.5, 1	96	960	374018
	Internal	Yes	Red	0.5, 1	96	960	374019
	Internal	Yes	Blue	0.5, 1	96	960	374021
Nunc	Internal	Yes	Clear	1, 2, 4, 5	500, Bulk	2,500	336078
	Internal	Yes	Red	1, 2, 4, 5	250, Bulk	2,500	336081
	Internal	Yes	Blue	1, 2, 4, 5	250, Bulk	2,500	336088
	Internal	Yes	Yellow	1, 2, 4, 5	250, Bulk	2,500	336092
	Internal	Yes	Assorted	1, 2, 4, 5	250, Bulk	2,500	336094
	Internal	Yes	Clear	1, 2, 4, 5	Bulk	2,500	363436
Nunc Universal	Internal	Yes	Clear	2	48	240	381392

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 (septa only)
WHI = white (caps only)
PIN = pink (caps only)
ORG = orange (caps only)
BLK = black (caps only)

Nunc Cryobank and Bank-it Tubes

Excellent choice for general long-term storage and transport

Recommended for use at ambient temperatures to –190°C

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.		Cat. No.
										Rack	Cryobox	Pack	Case	
Internal	0.5	0.4	F	Yes	2D	Clear				96		96, bulk	960	331851
Internal	0.5	0.4	F	Yes	2D	Blue		Lock-in	1D/HR	96		96	960	374025
Internal	0.5	0.4	F	Yes	2D	Red		Lock-in	1D/HR	96		96	960	374026
Internal	0.5	0.4	F	Yes	2D	Green		Lock-in	1D/HR	96		96	960	374027
Internal	0.5	0.4	F		2D	Clear		Lock-in	1D/HR	96		96	960	374074
Internal	0.5	0.4	F			Clear		Lock-in	1D/HR	96		96	960	374075
Internal	0.5	0.4	F	Yes		Clear				96		96, bulk	960	374080
Internal	0.5	0.4	F	Yes		Clear		Lock-in	1D/HR	96		96	192	374083
Internal	0.5	0.4	F	Yes	2D	Clear		Lock-in	1D/HR	96		96	960	374086
Internal	0.5	0.4	F	Yes		Clear		Lock-in	1D/HR	96		96	960	374087
Internal	1.0	0.9	F		2D	Clear		Lock-in	1D/HR	96	13x13	96	960	374078
Internal	1.0	0.9	F	Yes		Clear				96	13x13	96, bulk	960	374081
Internal	1.0	0.9	F	Yes	2D	Clear		Lock-in	1D/HR	96	13x13	96	192	374084
Internal	1.0	0.9	F	Yes	2D	Clear		Lock-in	1D/HR	96	13x13	96	960	374088
Internal	1.0	0.9	F	Yes		Clear		Lock-in	1D/HR	96	13x13	96	960	374089
Internal	1.0	0.9	F	Yes	2D	Green		Lock-in	1D/HR	96	13x13	96	960	374110
Internal	1.0	0.9	F	Yes		Clear	Yes			96	13x13	845, bulk	845	374115
Internal	1.0	0.9	F	Yes	2D	Red		Lock-in	1D/HR	96	13x13	96	960	374120
Internal	1.0	0.9	F	Yes	2D	Blue		Lock-in	1D/HR	96	13x13	96	960	374130
Internal	1.0	0.9	F	Yes	2D	Clear				96	13x13	96, bulk	960	374137
Internal	2.0	1.8	F	Yes	2D	Clear		Latch		48	9x9, 10x10	48	480	374221
Internal	2.0	1.8	F	Yes		Clear		Latch		48	9x9, 10x10	48	480	374223
Internal	2.0	1.8	F	Yes	2D	Clear				48	9x9, 10x10	48, bulk	960	374258
Internal	2.0	1.8	F	Yes		Clear				48	9x9, 10x10	48, bulk	960	374259
Internal	2.0	1.8	F	Yes	2D	Clear		Lock-in	1D/HR	48	9x9, 10x10	48	480	374221LOCK
Internal	2.0	1.8	F	Yes		Clear		Latch	1D/2D/HR	48	9x9, 10x10	48	480	374223-BR
Internal	5.0	4.5	F	Yes	2D	Clear		Latch		48	9x9, 10x10	48	480	374220
Internal	5.0	4.5	F	Yes	2D	Clear		Latch	1D/2D/HR	48	9x9, 10x10	48	480	374220-BR
Internal	5.0	4.5	F	Yes	2D	Clear		Lock-in	1D/HR	48	9x9, 10x10	48	480	374220LOCK
Internal	5.0	4.5	F	Yes		Clear		Latch	1D/2D/HR	48	9x9, 10x10	48	480	374222-BR
Internal	5.0	4.5	F	Yes		Clear				48	9x9, 10x10	48, bulk	528	374260
Internal	5.0	4.5	F	Yes	2D	Clear				48	9x9, 10x10	48, bulk	528	374261

Cryotubes are not suitable to store samples submerged in liquid nitrogen (LN_2) unless stored in CryoFlex tubing (see Sample Prep Accessories).

Nunc Universal Cryotubes

Excellent choice 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

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.		Cat. No.
										Rack	Cryobox**	Pack	Case	
External	1.8	1.5	Sharp V	Yes	2D/1D/HR	Clear	Yes	Latch		48	9x9, 10x10	48	480	374VR1-WP1D
External	1.8	1.5	Sharp V	Yes	2D/1D/HR	Clear	Yes			Bulk	9x9, 10x10	48, bulk	480	374BR1-WP1D
External	1.8	1.5	V	Yes	2D	Clear	Yes	Latch		48	9x9, 10x10	48	480	374500
External	1.8	1.5	V	Yes	2D	Clear	Yes	Latch	2D/1D/HR	48	9x9, 10x10	48	480	374500-BR
External	1.8	1.5	V	Yes		Clear	Yes	Latch		48	9x9, 10x10	48	480	374501
External	1.8	1.5	V	Yes		Clear	Yes	Latch	2D/1D/HR	48	9x9, 10x10	48	480	374501-BR
External	1.8	1.5	V	Yes	2D	Clear	Yes			48	9x9, 10x10	48, bulk	480	374502
External	1.8	1.5	V	Yes	2D/1D/HR	Clear				48	9x9, 10x10	48, bulk	480	374502NOV
External	1.8	1.5	V	Yes		Clear	Yes			48	9x9, 10x10	48, bulk	480	374503
Internal	2.0	1.8	V	Yes	2D	Clear	Yes	Latch		48	9x9, 10x10	48	480	374510
Internal	2.0	1.8	V	Yes	2D	Clear	Yes	Latch	2D/1D/HR	48	9x9, 10x10	48	480	374510-BR
Internal	2.0	1.8	V	Yes	2D/1D/HR	Clear	Yes	Latch	2D/1D/HR	48	9x9, 10x10	48	480	374510-WP1D-BR
Internal	2.0	1.8	V	Yes		Clear	Yes	Latch		48	9x9, 10x10	48	480	374511
Internal	2.0	1.8	V	Yes		Clear	Yes	Latch	2D/1D/HR	48	9x9, 10x10	48	480	374511-BR
Internal	2.0	1.8	V	Yes	2D	Clear	Yes			48	9x9, 10x10	48, bulk	480	374512
Internal	2.0	1.8	V	Yes		Clear	Yes			48	9x9, 10x10	48, bulk	480, bulk	374513
Internal	2.0	1.8	V	Yes	2D/1D/HR	Clear	Yes			Bulk	9x9, 10x10	48, bulk	480	374516-WP1D
External	5.0	4.5	V	Yes	2D	Clear	Yes	Latch		24		24	240	374320
External	5.0	4.5	V	Yes	2D	Clear	Yes	Latch	2D/1D/HR	24		24	240	374320-BR
External	5.0	4.5	V	Yes	2D/1D/HR	Clear	Yes	Latch		24	9x9, 10x10	24	240	374320-WP1D
External	5.0	4.5	V	Yes		Clear	Yes	Latch		24		24	240	374321
External	5.0	4.5	V	Yes		Clear	Yes	Latch	2D/1D/HR	24		24	240	374321-BR
External	5.0	4.5	V	Yes	2D	Clear	Yes			24		24, bulk	240	374322
External	5.0	4.5	V	Yes	2D/1D/HR	Clear	Yes			Bulk	9x9, 10x10	24, bulk	240	374322-WP1D
External	5.0	4.5	V	Yes		Clear	Yes			24		24, bulk	240	374323

* Writing area includes volume gradation lines.

Cryotubes are not suitable to store samples submerged in liquid nitrogen (LN_2) unless stored in CryoFlex tubing (see Sample Prep Accessories).

Nunc Biobanking and Cell Culture Cryogenic Tubes

Excellent choice for biobanking and cell culture

Recommended for use at ambient temperatures to –190°C

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.		Cat. No.
										Cryobox**	Pack	Case	
External	0.9	0.5	V	Yes		Clear		Yes	Yes	9x9, 10x10	500	500	264262†
External	1.2	1.0	V	Yes		Clear	Yes	Yes		9x9, 10x10	500	2,000	347597
Internal	1.2	1.0	V	Yes		Clear		Yes	Yes	9x9, 10x10	500	2,000	366656
External	1.2	1.0	V	Yes		Clear	Yes	Yes	Yes	9x9, 10x10	500	2,000	375353
Internal	1.2	1.0	V	Yes		Clear	Yes	Yes	Yes	9x9, 10x10	500	2,000	377224
External	2.0	1.8	U	Yes		Clear	Yes	Yes		9x9, 10x10	450	1,800	347627
Internal	2.0	1.8	U	Yes		Clear			Yes	9x9, 10x10	500	2,000	363401
Internal	2.0	1.8	U	Yes		Clear		Yes	Yes	9x9, 10x10	450	1,800	368632
Internal	2.0	1.8	U	Yes	1D/HR	Clear	Yes	Yes		9x9, 10x10	50	1,800	373420
External	2.0	1.8	U	Yes		Clear	Yes	Yes	Yes	9x9, 10x10	450	1,800	375418
Internal	2.0	1.8	U	Yes		Clear	Yes	Yes	Yes	9x9, 10x10	450	1,800	377267
Internal	2.0	1.8	U			No cap			Yes	9x9, 10x10	500	2,500	351934
Internal	2.0	1.8	U		1D/HR	Clear	Yes	Yes		9x9, 10x10	50	1,800	373530*
External	2.2	2.0	V	Yes		Clear		Yes	Yes	9x9, 10x10	500	500	264300†
Internal	4.0	3.6	U	Yes		Clear			Yes	9x9, 10x10	400	1,600	366524
Internal	4.0	3.6	U	Yes		Clear	Yes	Yes	Yes	9x9, 10x10	400	1,600	379189
Internal	4.0	3.6	U			No cap			Yes	9x9, 10x10	250	2,500	367997
External	5.0	4.5	U	Yes		Clear	Yes	Yes	Yes	9x9, 10x10	300	1,200	337516
External	5.0	4.5	U	Yes		Clear	Yes	Yes		9x9, 10x10	300	1,200	347643
Internal	5.0	4.5	U	Yes		Clear			Yes	9x9, 10x10	300	1,200	363452
Internal	5.0	4.5	U	Yes		Clear	Yes	Yes	Yes	9x9, 10x10	300	1,200	379146

Cryotubes are not suitable to store samples submerged in liquid nitrogen (LN_2) 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 –40°C to 95°C only.

Nalgene General Long-Term Storage Cryogenic Tubes

Excellent choice for long-term storage and research

Recommended for use at ambient temperatures to –190°C

Thread	Total capacity mL	Working voume mL	Bottom style	Sterile	Barcode on tube	Cap color	Anti-rotation base	Writing area*	Storage	Packaging qty.		Cat. No.
									Cryobox**	Pack	Case	
External	1.0	0.9	V	Yes		Clear	Yes	Yes	10x10	25	500	5000-1012
External	1.2	1.0	V	Yes		Clear	Yes	Yes	9x9	25	500	5000-0012
External	1.2	1.0	V	Yes	1D/HR	Clear	Yes		9x9	25	500	5001-0012
External	1.2	1.0	V			Clear	Yes		9x9	1,000	1,000	5011-0012
External	1.2	1.0	V	Yes		Clear	Yes	Yes	9x9	1,000	1,000	5012-0012
External	1.8	1.5	V	Yes		Clear	Yes	Yes	10x10	25	500	5000-1020
External	1.8	1.5	V	Yes	1D/HR	Clear	Yes		10x10	25	500	5001-1020
External	2.0	1.8	V	Yes		Clear	Yes	Yes	9x9	25	500	5000-0020
External	2.0	1.8	V	Yes	1D/HR	Clear	Yes		9x9	25	500	5001-0020
External	2.0	1.8	V			Clear	Yes		9x9	1,000	1,000	5011-0020
External	2.0	1.8	V	Yes		Clear	Yes	Yes	9x9	1,000	1,000	5012-0020
External	5.0	4.5	V	Yes		Clear	Yes	Yes	9x9	10	250	5000-0050
External	5.0	4.5	V	Yes	1D/HR	Clear	Yes		9x9	10	250	5001-0050
External	15.0	15.0	F	Yes		Clear				5	75	5005-0015

Cryotubes are not suitable to store samples submerged in liquid nitrogen (LN_2) 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

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

Cryoboxes and racks (continued)

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

Cryocanes

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

Cryotube freezer racks

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

Cryotube color coder cap inserts

Description	Compatible brand	Qty./ CS	Cat. No.
CRYOGNC CLSR COLOR CD PS; WHT	Nalgene	500	5045-0000
CRYOGNC CLSR COLOR CD,PS;YEL	Nalgene	500	5045-0002
CRYOGNC CLSR COLOR CD PS; BLU	Nalgene	500	5045-0003
CRYOGNC CLOSR COLOR CD PS; GRN	Nalgene	500	5045-0004
CRYO CLSR COLOR CD PS; RED	Nalgene	500	5045-0005
CRYOCOLOR CODE, INSERT WHITE	Nunc	2,000	354755
CRYOCOLOR CODE, INSERT BLUE	Nunc	2,000	354879
CRYOCOLOR CODE, INSERT RED	Nunc	2,000	354968
CRYOCOLOR CODE, INSERT GREEN	Nunc	2,000	355018
CRYOCOLOR CODE, INSERT YELLOW	Nunc	2,000	355077
CRYOCOLOR CODE, INSERT ORANGE	Nunc	2,000	355158
CRYOCOLOR CODE, INSERT BROWN	Nunc	2,000	375868
CRYOCOLOR CODE, INSERT PINK	Nunc	2,000	375884
CRYOCOLOR CODE, INSERT GRAY	Nunc	2,000	375906
CRYOCOLOR CODE, INSERT PURPLE	Nunc	2,000	375922
CRYOCOLOR CODE, INSERT ASSORTED	Nunc	2,000	375930

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 Single-Tube 2D Barcode Reader

VisionMate HSX High Speed Barcode Reader

VisionMate barcode readers

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

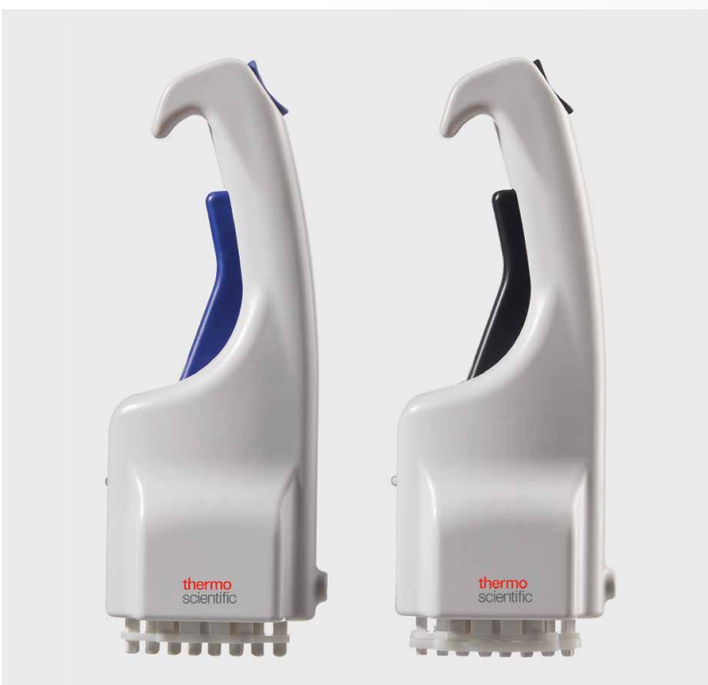
ScrewTop Tube Capper/Decappers

Thermo Scientific capper/decappers support both automated and tool-assisted manual capping and decapping of Matrix and selected Nunc storage tubes. These products help ensure that all tubes are capped to the optimal torque level, helping prevent sample loss and maintaining sample integrity. Safety features help prevent incorrect loading of racks and help prevent risks of cross-contamination. Design elements and simple interfaces offer additional protection against the risk of repetitive stress injury 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

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

Handheld capper/decapper



Capit-All Flex Automated Decapper

Capit-All Flex Automated Decapper

Description	Cat. No.
Capit-All Flex Automated Decapper	4120-FLEX

Sample preparation accessories

Protect your samples at every stage

Chillers

Thermo Scientific™ Mr. Frosty™ Freezing Container

Pens

CryoFlex tubing

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

Cryopens and markers

Description	Compatible brand	Qty./CS	Cat. No.
CRYOWARE LABELS PLAIN;1X2 IN.	Nalgene	2,000	5040-0002
BLACK CRYOPEN MARKERS	Nunc	10	343850
CRYO MARKER SET;4 MARKERS	Nalgene	24	6313-0010
CRYOMARKER, BLACK	Nalgene	24	6313-0020

Mr. Frosty freezing containers

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

Benchtop coolers

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

Benchtop Dewar flasks

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

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