

## Thermo Scientific Nunc 1.8mL Universal Tubes with Barcoded Racks

A familiar format enables sample traceability to ease the transition to automation

Thermo Scientific™ Nunc™ Externally threaded 1.8mL Universal System Tubes are available with barcodes and ANSI latch racks, to facilitate the evolution from manual to automated work flows. The 1.8mL tubes utilize a single piece cap and clean manufacturing process to ensure the peak level of sample integrity for high-value applications such as primary and stem cells, siRNA libraries, and therapeutic antibodies.

Sample identity is ensured due to the permanently attached 2D barcode on each tube and permanent laser etching of the rack. The result is precise tracking at each stage of the workflow, unlike adhesive labels or press-fit 2D barcodes on tubes that can potentially fall off and jeopardize traceability.

The purpose-built innovative starfoot design on the universal tube, when used in conjunction with the latch rack system, secures the tube in place and prevents rotation during capping and decapping.



### Cryostorage Applications

- Cell cultures
- Blood components
- Nucleic acids
- Protein and protein extracts
- Chemical compounds



### Key Features

### Benefits

ANSI footprint barcoded latch racks

- Robust rack construction with locking lid for increased sample security
- Enables automated handling and tracking of racks
- Integrated 2D barcode on rack bottom for orientation in laboratory automation

Laser etched rack and 2D tube barcodes

- Permanently bonded fine print resolution barcodes withstand the harshest conditions and stay linked with the sample as compared to adhesive labels or press fit 2D tube barcodes that can potentially fall off and lose traceability

Single piece cap with integral gasket

- Reduces potential to over tighten and exceed torque specification
- Protects in dynamic storage temperatures like vapor phase liquid nitrogen

Star foot design

- Prevents tube from rotating in rack during capping and decapping

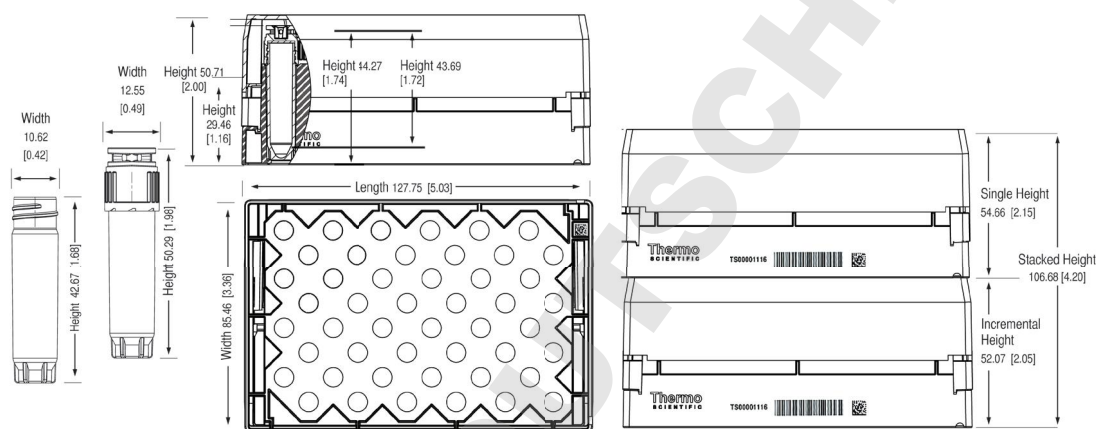
Quality Assurance

- No barcode duplication guaranteed
- Manufactured in a clean environment and individually packaged under an ISO registered quality system
- Sterilized to SAL 10<sup>-6</sup>
- Free from DNase, RNase, and endotoxins

## Specifications

Tube Material	Virgin Class VI Medical-grade Polypropylene
Rack Material	Polycarbonate with polypropylene latches
Cap Material	Virgin Class VI Medical-Grade Polypropylene with Thermoplastic Elastomer Gasket Material
Contaminant Free	All tubes and trays are supplied free from DNA, RNase, DNase, and endotoxins
Sterility	SAL of 10 <sup>-6</sup>
Shippable	IATA certified
2D Code Choices	Non-proprietary, 12x12 Data-matrix with ECC200 Built-in Error Correction
Recommended Tube/Cap Temperature Range	-180°C to 60°C
Torque Requirements*	Maximum 0.12 Nm, Minimum 0.075

\*Note this is "on" torque required for placing caps on tubes for optimal sealing and sample integrity protection. All Thermo Scientific decapping equipment suited for use with applicable tubes ensures the proper torque is applied when equipment is within the limits of the preventative maintenance schedules; consult applicable manuals for details on tube compatibility and preventative maintenance recommendations.



## Ordering information

### Thermo Scientific Nunc 1.8mL Universal Tubes with Barcoded Racks Purchasing Information

Cat. No.	Description	Barcoding	Marking	Tubes per Rack or Pack/Case
374500	Universal Tubes in Universal Latch Rack	2D on tube bottom	White patch and Graduations	48/480
374500-BR	Universal Tubes in Universal Latch Rack	2D on tube bottom, Barcoded rack	White patch and Graduations	48/480
374501	Universal Tubes in Universal Latch Rack	None	White patch and Graduations	48/480
374501-BR	Universal Tubes in Universal Latch Rack	No barcode on tube, Barcoded rack	White patch and Graduations	48/480
374502	Universal Tubes, Bulk	2D on tube bottom	White patch and Graduations	48/480
374503	Universal Tubes, Bulk	None	White patch and Graduations	48/480
331830	Latch Rack for Universal Tubes	—	—	10 empty racks
331830-BR	Latch Rack for Universal Tubes	Barcoded Rack	—	10 empty racks

### Associated Sample Storage Workflow Purchasing Information

Cat. No.	Description
3125	Thermo Scientific™ VisionMate™ Single Tube Barcode Reader
3115-11	VisionMate Single Rack Barcode Reader
312800	VisionMate High Speed Barcode Reader
3122-V2	VisionMate Wireless Barcode Reader
4105NUN	8-Channel Handheld Screw Cap Capper/Decapper with stand for Nunc-style Tubes
4114NUN	Thermo Scientific™ Capit-All™ Screw Cap Tube Capper/Decapper (48-channel)
4114NUN-IS	Capit-All Screw Cap Tube Automation Friendly Capper/Decapper (48-channel)

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