

Thermo Scientific Matrix 200 μ L Tubes in Barcoded Racks

Secure low volume storage for maximum freezer utility

Thermo Scientific™ Matrix™ 2D Barcoded 200 μ L ScrewTop Tubes protect precious materials from harsh storage conditions, with extensive barcoding to provide the precise tracking essential for downstream success. The height of two stacked Matrix 200 μ L latch racks is comparable to the height of one 1.8 or 2.0 mL screwtop tube latch rack, permitting twice the number of samples to be stored in existing freezer racks without additional equipment investment. Ideal for both manual handling and automated capping/decapping, the tubes are seated in the rack with a friction fit, ensuring no tubes fall out or get lost during processing or shipping, and maintaining reliable sample traceability.



Cryostorage Applications

- Nucleic acids
- Protein and protein extracts
- Biological fluids
- Aliquot libraries



Key Features

Benefits

Low profile tube and rack

- Compatible with existing storage containers, requiring half the stack height

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

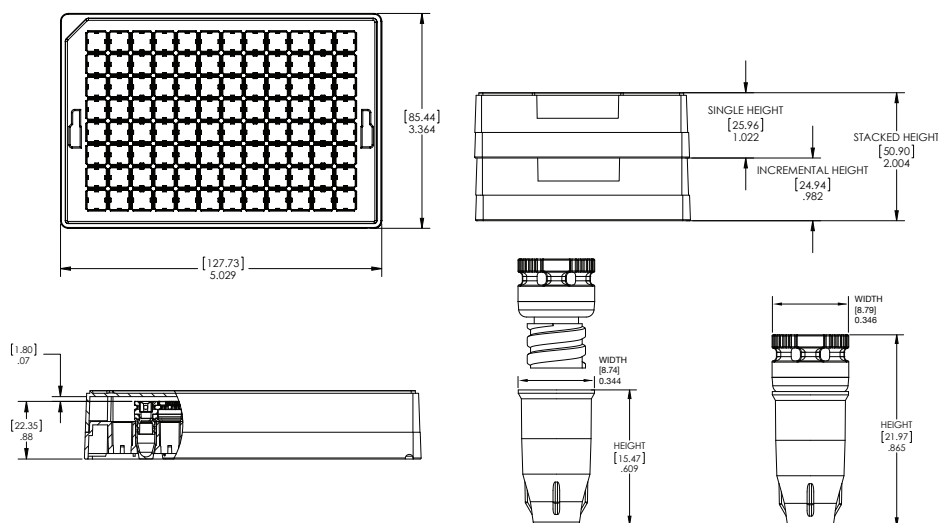
Quality Assurance

- No barcode duplication guaranteed
- Manufactured in a clean environment and individually packaged under an ISO registered quality system
- Sterilized to SAL 10⁻⁶
- Free from DNA, 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 ⁻⁶
2D Code Choices	Non-proprietary, 12x12 Data-matrix with ECC200 Built-in Error Correction
Tube/Cap Temperature Range	-180°C to 60°C
Torque Requirements*	Maximum 0.09 Nm, Minimum 0.05

*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 Matrix 200 µL 2D Barcoded Tubes Purchasing Information

Cat. No.	Description	Barcoding	Tubes per Rack or Pack/Case
3747	Low Profile Tubes, V bottom, with caps, Bulk	2D on tube bottom	480 tubes/Bag/Case
3748	Low Profile Tubes, V bottom, with caps in Latch Rack	2D on tube bottom	96/480
3748-BR	Low Profile Tubes, V bottom, with caps in Latch Rack	2D on tube bottom, Barcoded rack	96/480
4898-BR	Latch Rack for Low Profile 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 Matrix-style Tubes
4111NUN	Thermo Scientific™ Capit-All™ Screw Cap Tube Capper/Decapper (96-channel)
4111NUN-IS	Capit-All Screw Cap Tube Automation Friendly Capper/Decapper (96-channel)

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