



SERVING SCIENTISTS  
SINCE 1984

CERTIFIED CLASS 7 CLEAN ROOM  
MANUFACTURING

PRODUCTION IN  
THE NETHERLANDS AND  
THE UNITED STATES

# TUBES WITH EXTERNAL THREAD

2D Data-Matrix Coded

## 2D DATA-MATRIX CODED TUBES

The 2D Data-Matrix coded tubes and Code Readers of Micronic are used by researchers worldwide to guarantee the traceability of valuable samples during the sample storage process. The unique 2D code of each tube can be scanned to identify a sample, its coordinates within a storage rack, the particular freezer and the location of the rack in the freezer. In addition to providing reliable long-term sample identification, the high quality Micronic labware ensures that the integrity of samples is preserved at ultra-low temperatures over extended periods of time.

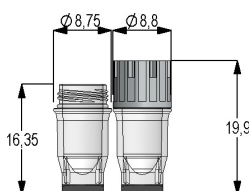


Micronic offers a comprehensive range of 2D Data-Matrix coded tubes. Precision manufactured from ultra-pure grade Polypropylene in a certified Class 7 clean room production environment, the tubes resist many organic solvents (DMSO, methanol, dichloromethane), may be autoclaved clean and can be gamma irradiated without loss of product performance. Manufactured to the industry leading strict tolerances, the tube-to-tube consistency of Micronic labware maximizes operational uptime when used in combination with automated systems.

Want to get started using 2D coded tubes? Check out our Starter Packs that offer a substantial saving over buying the products individually!

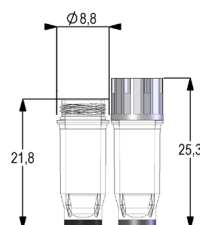
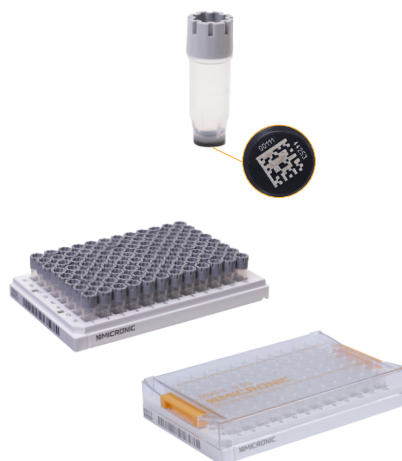
### 0.30ml

2D Data-Matrix Coded  
96-well configuration



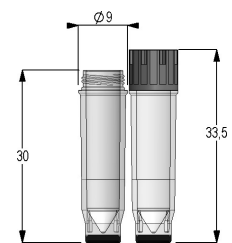
### 0.40ml

2D Data-Matrix Coded  
96-well configuration



### 0.75ml

2D Data-Matrix Coded  
96-well configuration



# TUBES WITH EXTERNAL THREAD

## 2D DATA-MATRIX CODED

### RACK, CAP AND EQUIPMENT COMPATIBILITY

To enable fast, accurate and efficient sample identification and handling, Micronic offers (de)capping equipment and code readers.

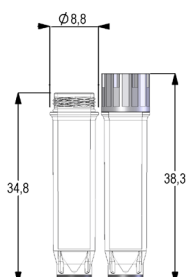
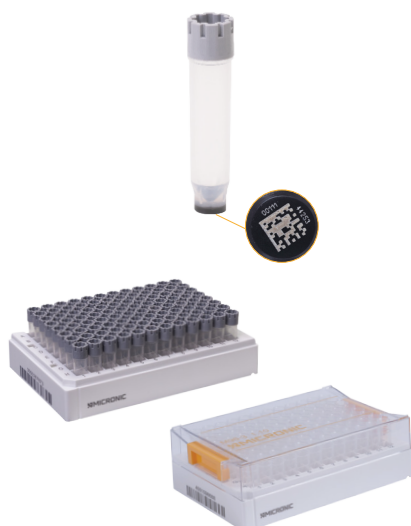
Micronic Screw Cap Recappers offer the ability to cap or decap a row of tubes in less than 5 seconds and a whole rack in only 30 seconds. This is much faster than (de)capping by hand and improves the efficiency of a sample storage workflow. The compact Micronic Code Readers are built for high throughput and are compatible with the entire range of Tubes with External Thread.



The 2D Data-Matrix coded Tubes with External Thread are available in bulk, cap carrier or rack. The storage rack range consists of the ULT Rack Range in 96-, 48- and 24-well format. The racks are based on the ANSI/SLAS standards for storage racks. Additionally, the racks feature a laser-edched 1D barcode, alphanumeric coding on top, and 'twist lock' to prevent tubes from turning during (de)capping.

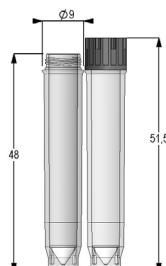
### 0.80ml

2D Data-Matrix Coded  
96-well configuration



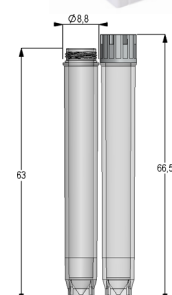
### 1.40ml

2D Data-Matrix Coded  
96-well configuration



### 2.00ml

2D Data-Matrix Coded  
96-well configuration

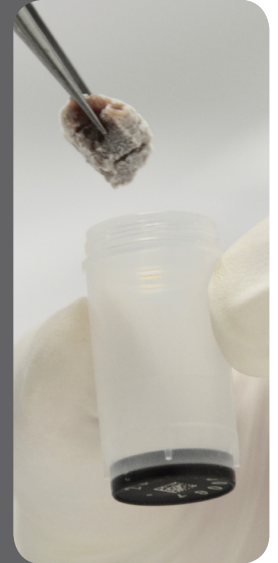




## ADVANCING TISSUE SAMPLE STORAGE

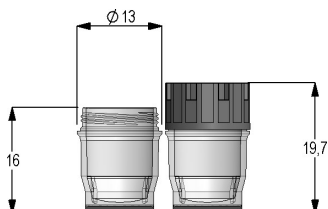
Micronic 1.00ml and 3.50ml tissue tubes with external thread are designed for the storage and transportation of fresh frozen tissue samples. The wide shallow opening and flat bottom of the tubes enable easy loading / removal of tissue samples using tweezers. Using externally threaded tubes for tissue storage eliminates the possibility of the sample coming into contact with the screw thread, greatly reducing the chance of cross-contamination while improving sample integrity.

Due to the unique injection molding technique used to manufacture the tissue tubes, the black code surface with 2D Data-Matrix code cannot be separated from the transparent tube. This ensures the absolute traceability of tissue samples. The tissue tubes are compatible with the Micronic Ultra-Low Temperature Rack Range in the industry standard ANSI/SLAS format and automated systems.



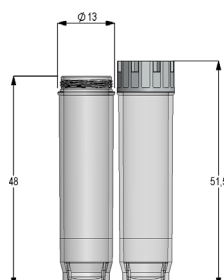
### 1.00ml

2D Data-Matrix Coded  
48-well configuration



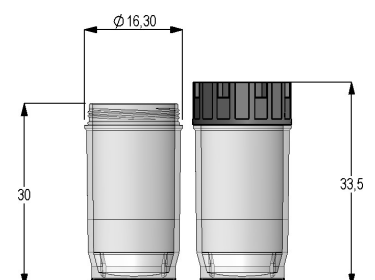
### 4.00ml

2D Data-Matrix Coded  
48-well configuration



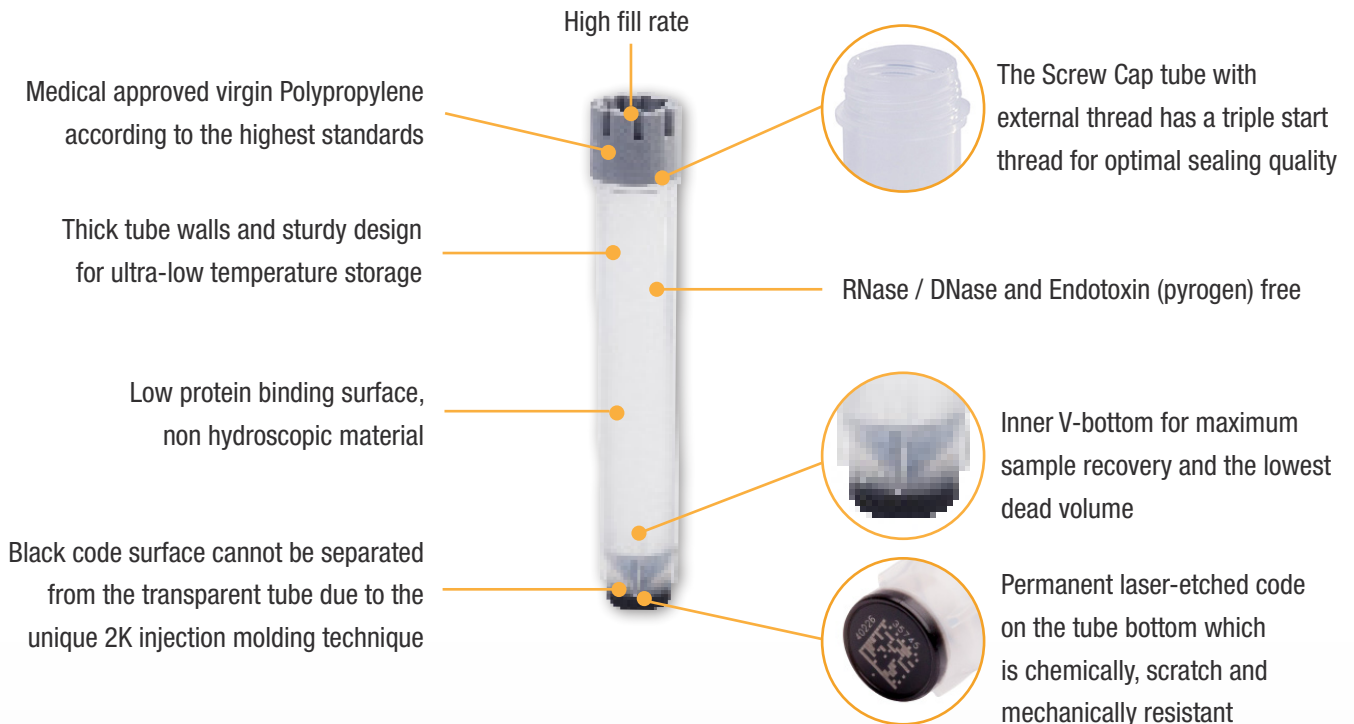
### 3.50ml

2D Data-Matrix Coded  
24-well configuration





# SUPERIOR FEATURES OF MICRONIC SAMPLE STORAGE TUBES



## OPTIONAL SERVICES / FEATURES

### STERILIZATION

#### Sterilization using Gamma Irradiation

Upon request, Micronic products can be supplied gamma irradiated. Irradiation itself cannot guarantee that the product is free from any detectable RNases, DNases or pyrogens. Class 7 clean room production is therefore an essential requirement.



#### Sterilization using EtO Treatment

Upon request, Micronic products can be supplied ethylene oxide treated. Using a novel ethylene oxide treatment process - Micronic's consumable products are independently certified to be absolutely DNA-free and therefore provide the perfect medium for long-term, high integrity storage of forensic samples. Micronic is offering the DNA-free products in a special Tyvek packaging.



#### Pre-Capped

All Micronic tubes are available pre-capped upon request. There are 6 different colors for your choice: Grey, Yellow, Orange, Red, Blue and Light Green.



#### Pre-Racked

All Micronic tubes are available pre-racked upon request. The racks are based on the global recognized ANSI / SLAS standards for storage and features a laser etched 1D rack barcode.

# TUBE WORKING VOLUMES

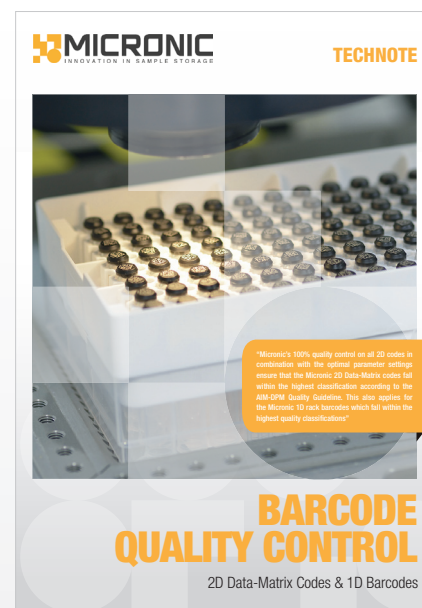
Working volume (+21°C)	With Vr-Bottom	With V-Bottom	With Flat Bottom
0.30ml Tube with External Thread	0.21ml	0.30ml	n/a
0.40ml Tube with External Thread	n/a	0.40ml	n/a
0.75ml Tube with External Thread	n/a	0.60ml	n/a
0.80ml Tube with External Thread	n/a	0.75ml	n/a
1.40ml Tube with External Thread	n/a	1.11ml	n/a
2.00ml Tube with External Thread	n/a	1.55ml	n/a
1.00ml Tube with External Thread	n/a	n/a	0.85ml
3.50ml Tube with External Thread	n/a	n/a	3.35ml
4.00ml Tube with External Thread	n/a	n/a	3.40ml

## BARCODE QUALITY CONTROL

The Tech Note about “Barcode Quality Control” describes the outstanding quality of laser-etched 2D Data-Matrix codes on Micronic tubes.

Traceability is one of the most important considerations for short and long-term sample storage. The Micronic 1D rack barcode and 2D Data-Matrix tube code quality is well-known among biobanking and other laboratory facilities as critical to reliably track and trace valuable samples.

Micronic’s 100% quality control on all 2D codes in combination with the optimal parameter settings ensure that the Micronic 2D Data-Matrix codes fall within the highest classifications according to the AIM-DPM Quality Guidelines.



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