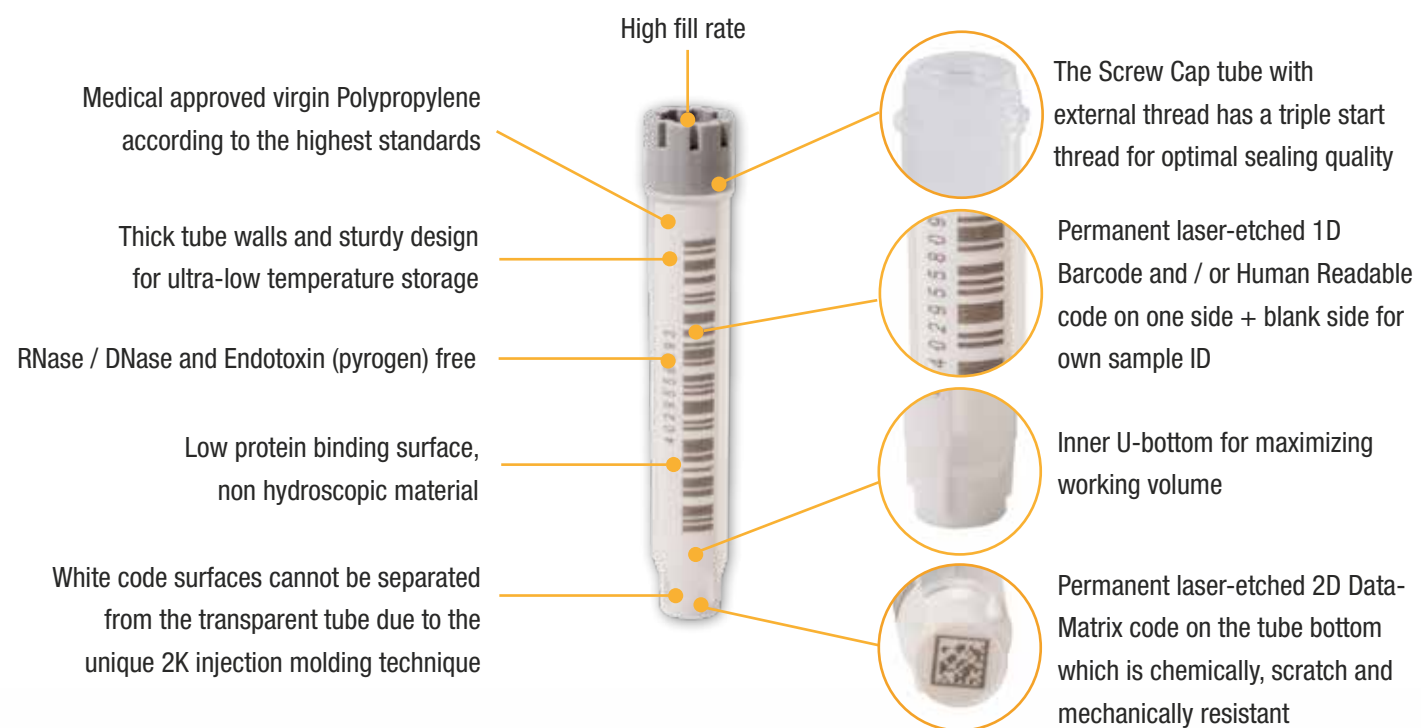


## SUPERIOR FEATURES OF MICRONIC SAMPLE STORAGE TUBES



### 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 9 different colors for your choice: Grey, White, Yellow, Orange, Red, Purple, Blue, Light 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 U-Bottom	With Flat Bottom
0.75ml Tube with External Thread Hybrid (96-format)	0.62ml	n/a
1.40ml Tube with External Thread Hybrid (96-format)	1.20ml	n/a
2.00ml Tube with External Thread Hybrid (48-format)	n/a	1.95ml
3.00ml Tube with External Thread Hybrid (48-format)	n/a	2.90ml
1.50ml Tube with External Thread Hybrid (24-format)	n/a	1.45ml
3.00ml Tube with External Thread Hybrid (24-format)	n/a	2.45ml
6.00ml Tube with External Thread Hybrid (24-format)	n/a	6.00ml

### A COMPLETE CODE READER RANGE FOR EVERY BUDGET

To enable fast, accurate and efficient sample identification, Micronic offers an extensive code reader range which consists of whole rack and single tube readers. The high-end Micronic Rack Reader DR700 features high resolution imaging technology for accurate 2D code reading, and an anti-frost system so that tube codes from even frozen samples can be read. The DR700 has a scan time of approximately 7 seconds. To read 1D rack barcodes simultaneously, a Micronic Side Barcode Reader is available.

The Micronic Rack Reader DR500 and DR505 are small benchtop solutions that can read 2D codes quickly and cost effective within seconds. The compact readers are built for high throughput and automated systems. The DR505 version has an anti-frost system, which enables users to read racks filled with 2D codes tubes straight from the freezer. All Micronic Rack Readers are standard supplied with Micronic Code Reader Software to ensure an optimal performance.



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# HYBRID TUBES WITH EXTERNAL THREAD

2D Data-Matrix coded bottom & 1D Barcoded / Human Readable coded side

## HYBRID TUBES WITH EXTERNAL THREAD

2D DATA-MATRIX CODED BOTTOM & 1D BARCODED / HUMAN READABLE CODED SIDE



### AUTOMATED AND VISUAL SAMPLE IDENTIFICATION

The Micronic tubes with external thread hybrid uniquely combine automated and visual sample identification. The visual codes allow researchers to quickly identify samples or verify codes during the storage/retrieval process or field research. The transparent parts of the tube wall enable easy visual checking of the sample. The 1D and 2D barcode can be read by automated systems. The bottom code surface of the tubes features a raised edge, which protects the 2D Data-Matrix code against accidental scratches.



Due to the unique injection molding technique used to manufacture the hybrid tubes, the white bottom and side walls cannot be separated from the transparent tube. The high contrast 1D, 2D and human-readable codes are permanently laser-etched into the white surfaces, so that they can never wear or fall off. The triple screw thread of the hybrid tubes gives an excellent closure for long-term sample preservation and storage at ultra-low temperatures. To prevent the screw cap from overturning - manually or mechanically - the cap is designed with a unique lock when sealed. The cap is available in nine different colors.

Want to get started using Hybrid tubes or test these tubes in your application? Check out our Hybrid Tube Trial Packs!

### EQUIPMENT AND STORAGE RACK COMPATIBILITY

To enable fast, accurate and efficient sample identification and handling, Micronic offers a range of (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 Micronic Code Readers are built to read 2D Data-Matrix coded tubes quickly, cost effective and with limited lab space, and are compatible with the range of Hybrid Tubes with External Thread.



The Hybrid Tubes with External Thread are available in bulk 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-etched 1D barcode, alphanumeric coding on top, and 'twist lock' to prevent tubes from turning during (de)capping.

### UNIQUELY COMBINING 4 CODING CONCEPTS

- 1 White blank surface to write or laser your own ID
- 2 Numeric human-readable on the tube side wall
- 3 1D Barcode on the tube side wall
- 4 2D Data-Matrix code on the tube bottom

Guarantee your sample traceability!



#### 0.75ml

2D Data-Matrix coded bottom & 1D / Human Readable coded side

96-well configuration



#### 1.40ml

2D Data-Matrix coded bottom & 1D / Human Readable coded side

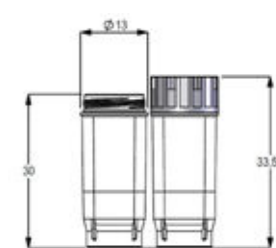
96-well configuration



#### 2.00ml

2D Data-Matrix coded bottom & 1D / Human Readable coded side

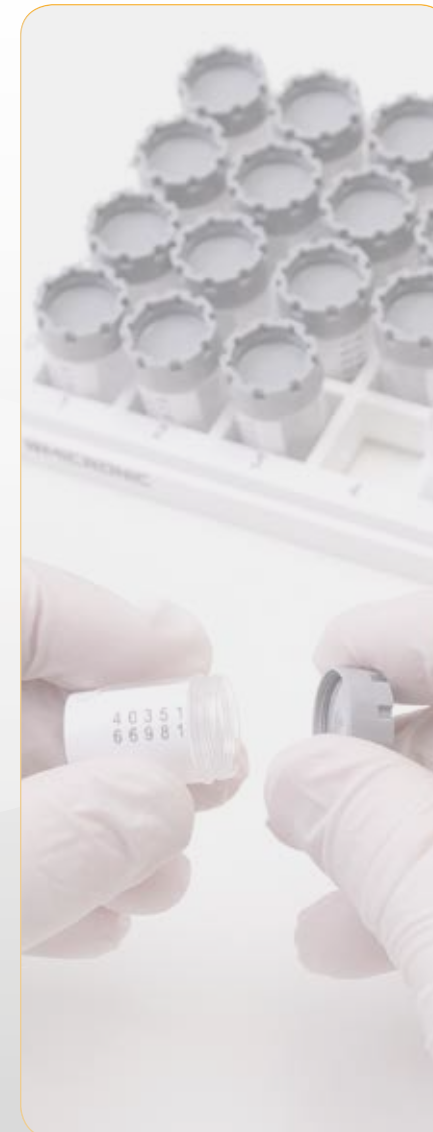
48-well configuration



#### 3.00ml

2D Data-Matrix coded bottom & 1D / Human Readable coded side

48-well configuration



#### 1.50ml

2D Data-Matrix coded bottom & Human Readable coded side

24-well configuration



#### 3.00ml

2D Data-Matrix coded bottom & Human Readable coded side

24-well configuration



#### 6.00ml

2D Data-Matrix coded bottom & 1D / Human Readable coded side

24-well configuration

