MICRONIC
INNOVATION IN SAMPLE STORAGE

BROCHURE

30 YEARS OF EXPERIENCE IN TRACEABLE SAMPLE STORAGE

CERTIFIED CLASS 7 CLEAN ROOM INJECTION MOLDING AND ASSEMBLY

PRODUCTION IN THE NETHERLANDS AND THE UNITED STATES

TUBES WITH INTERNAL THREAD

Non-Coded and Alphanumeric Coded

Available in Canada from...

MJS BioLynx INC.

1-888-593-5969 • www.biolynx.ca • tech@biolynx.ca

MICRONIC
INNOVATION IN SAMPLE STORAGE

NON-CODED TUBES

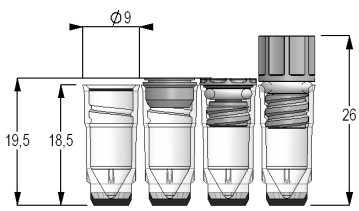
Non-Coded tubes provide an affordable way to improve sample storage, handling, screening and logistics. Many laboratories use the Non-Coded tubes for short-term storage or intermediate processes such as sample grinding with beads (Tech Note 'Bead Beating Performance' available upon request). The tubes can also be used for transportation of small or larger volume samples. The Micronic 1.40ml Non-Coded Round Bottom tubes are a well-known and standard solution for many laboratory applications. Other specials like the Amber Tubes for light sensitive samples and the Tube Strip-8 are also available Non-Coded in ANSI/SLAS standard storage racks.

Rack and Cap Compatibility

The Non-Coded tube size range includes 0.50ml (Micronic 96-1, Micronic 96-Q1 Rack or Loborack-96), 0.75ml (Micronic 96-2 Rack or Loborack-96), 1.10ml (Micronic 96-3 Rack or Roborack-96), 1.40ml (Micronic 96-4 Rack, Roborack-96 or Comorack-96) and 4.00ml (Micronic 48-4 Rack). The tubes are available in bulk, refill or rack. The TPE or EVA Caps are an excellent solution to store samples with quality and cost efficiency. The full TPE cap range is available in Natural and 12 different colors. Cap colors can offer a quick visual sample identification for Non-Coded and any other type of tubes (Tech Note 'Cap Color Coding' available upon request).

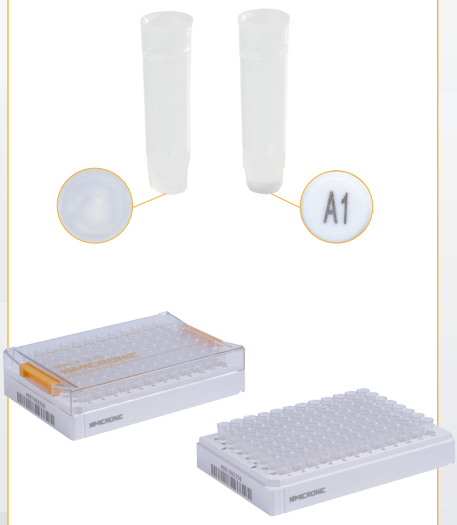
0.50ml

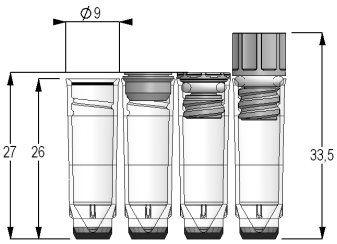
Non-Coded and
Alphanumeric Coded



0.75ml

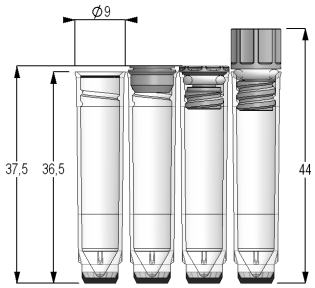
Non-Coded and
Alphanumeric Coded





1.10ml

Non-Coded



TUBES WITH INTERNAL THREAD

NON-CODED AND ALPHANUMERIC CODED

ALPHANUMERIC CODED TUBES

The alphanumeric code is a combination of alphabetic and numeric characters. The Alphanumeric Coded tubes are an excellent solution combining lower price and easy visual sample identification based on the tube position in the rack (A1 thru H12) using the alphanumeric code on the bottom of each tube. The alphanumeric codes are permanently laser-etched using a unique 2K injection molding technique, so the code surface and the transparent tube cannot be separated from each other. The special 1.40ml Round Bottom tubes are also available with an alphanumeric code.

Rack and Cap Compatibility

The Alphanumeric Coded tube size range includes 0.50ml (Micronic 96-1/96-Q1 Rack or Loborack-96), 0.75ml (Micronic 96-2 Rack or Loborack-96), 1.40ml (Micronic 96-4 Rack, Roborack-96 or Comorack-96), 2.00ml (Roborack-96) and 4.00ml (Micronic 48-4 Rack). Micronic Alphanumeric Coded tubes are available in bulk, refill or rack. Used with TPE Caps, the tubes provide an economical storage solution at temperatures down to -80°C. Micronic also offers (Low Profile) Screw Caps for storage down to vapor phase LN2 (-196°C).

For tube working volume specifications, see page 6 & 7 of our latest catalog: www.micronic.com/uploads/catalog.pdf

1.40ml Round Bottom

Non-Coded and
Alphanumeric Coded

1.40ml

Non-Coded and
Alphanumeric Coded

2.00ml

Alphanumeric Coded

Complete Cost-Effective Storage Solution

Push Caps: The TPE Caps are availabe in several formats: the Capcluster-96 which leaves each tube individually capped, the Capmat-96 holds 96 caps in a fixed foil in which the tubes are sealed together, and the Capband-8 or -12 comes in a mat format with tear off lines to obtain cap strips.

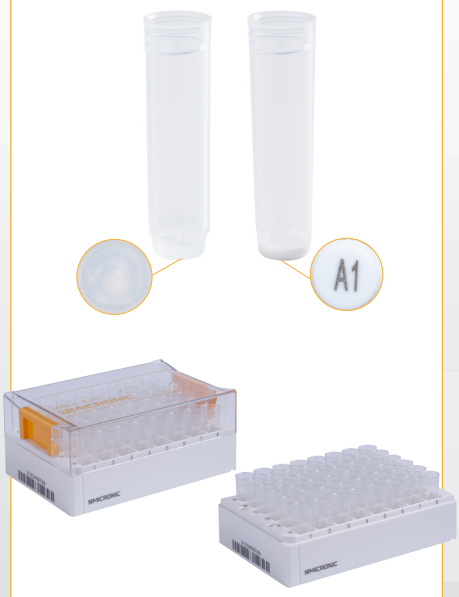
Manual Decapping Tools: All manual decappers are compatible with the Micronic TPE Push Caps, TPE LyoCaps and EVA Push Caps in 96-well format of 0.50ml, 0.75ml, 1.10ml, 1.40ml, 2.00ml, and 2.50ml tubes. The Micronic Manual Decappers are cost effective solution for quick decapping.

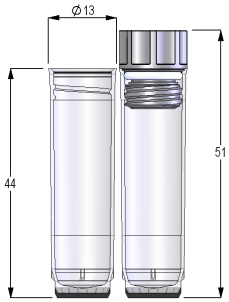
Univo Manual Capper CM480: Offers a cost effective way of applying uniform pressure to push caps in an entire 96 tubes rack in only a single action. The manual capper is able to repeatably and reliably securely cap tubes (up to 1.40ml) in all ANSI /SLAS format racks up to a maximum height of 48mm.

Univo Electric Capper CP480/CP860: The Univo Electric Capper CP480 can cap the following Micronic Push Caps on 96-format tubes (0.50ml, 0.75ml, 1.10ml, 1.40ml) in rack. The Univo Electric Capper CP860 can cap Micronic Push Caps on 96-format tubes (up to 2.50ml) in rack. No adapters required.

4.00ml

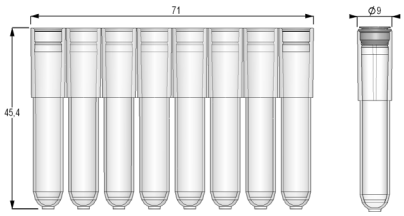
Non-Coded and
Alphanumeric Coded





Tube Strip-8

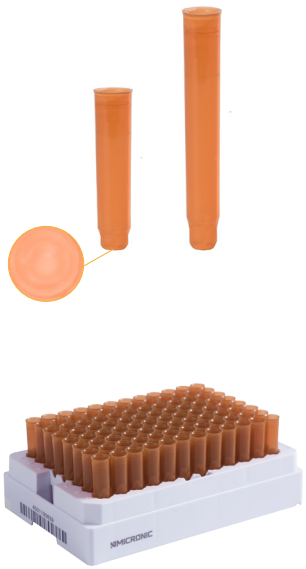
Non-Coded (1.40ml)



Amber Tubes

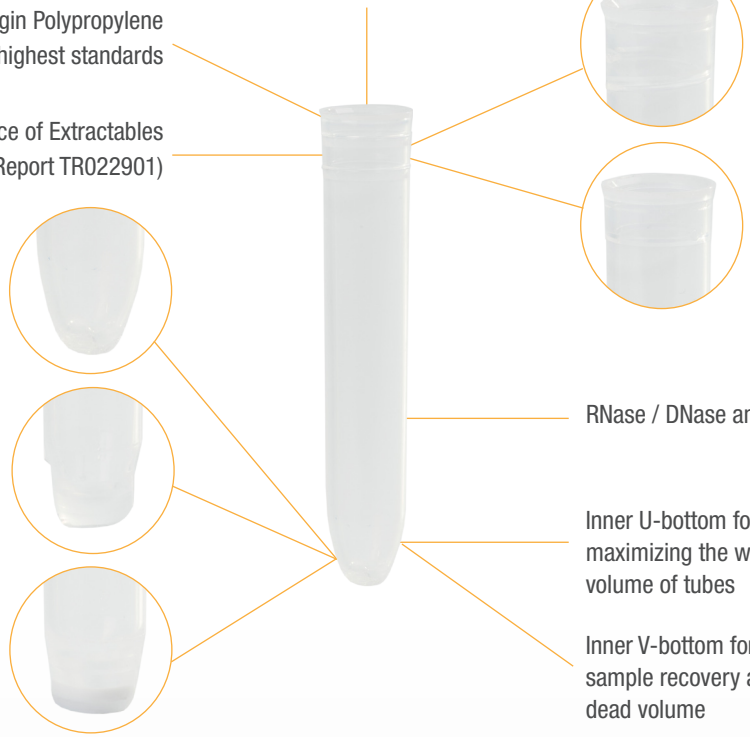
for light sensitive samples

Non-Coded (0.75ml and 1.40ml)



Please check dimensions for
0.75ml and 1.40ml tubes.

SUPERIOR FEATURES OF MICRONIC SAMPLE STORAGE TUBES



OPTIONAL SERVICES / FEATURES

Sterilization by Gamma Irradiation

Most of the Micronic products are sterilized by gamma irradiation (15.0 kGy). Sterilization by gamma irradiation can ensure a SAL of 10-6: a one millionth probability of microbial survival. 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 by EtO Treatment

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.

Snap Tubes

The tubes are locked into the rack wells to prevent sample loss from overturned racks. There is no extra charge for this feature and it is available with 0.50ml, 0.75ml, 1.10ml and 1.40ml.

Pre-Capped

All Micronic tubes are available pre-capped with Screw Caps or TPE Push Caps upon request. To aid visual identification of stored samples, the caps are available in 12 different colors: Grey, White, Yellow, Orange, Red, Pink, Purple, Blue, Light Blue, Light Green, Green and Black.

Pre-Racked

All Micronic tubes are available pre-racked. The racks are based on the global recognized ANSI / SLAS standards for storage racks and feature a laser etched 1D rack barcode (custom codes can be requested).

TUBE MATERIAL PROPERTIES

MICRONIC SAMPLE STORAGE TUBES ARE EXTRACTABLES-FREE

The Tech Note about "Absence of Extractables" demonstrates the absence of extractable organic contaminants in their polypropylene sample storage tubes.

The possibility of extractables being leached out of polypropylene tubes by aqueous or organic solvents is a major concern to many organizations looking to safeguard their valuable stored samples from contamination.

In the tests carried out, samples of Micronic polypropylene sample storage tubes were extracted with 10% absolute ethanol in ultrapure water and the extract was then analysed using highly sensitive GC-FID and GC-MS instrumentation. Results, included in the report, demonstrate a complete absence of organic contaminants in the samples extracted from the Micronic polypropylene sample storage tubes.

ULTRA LOW BINDING TUBES FOR PROTEOMICS

The Tech Note about "Ultra Low Binding Tubes" describes a study in which the protein binding properties of commercially available sample storage tubes were tested.

Driven by the rapid growth in proteomics and protein research applications the need for storage tubes where interaction between the sample and the tube surface is minimized has grown exponentially. The need for storage tubes that exhibit ultra-low binding properties is critical to these research fields due to the low concentrations of proteins typically found in samples.

The results show that the Micronic sterile and non-sterile polypropylene tubes both exhibit very low protein binding. By comparison the competitive 'ultra low binding' polypropylene storage tube bound 3.5 times more protein and the 'medium binding' polystyrene plate over 56 times more protein compared to the Micronic sterile polypropylene tubes. The study concludes that using sterilized Micronic polypropylene tubes protein recovery rates are maximized and consequently protein loss is minimized.

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