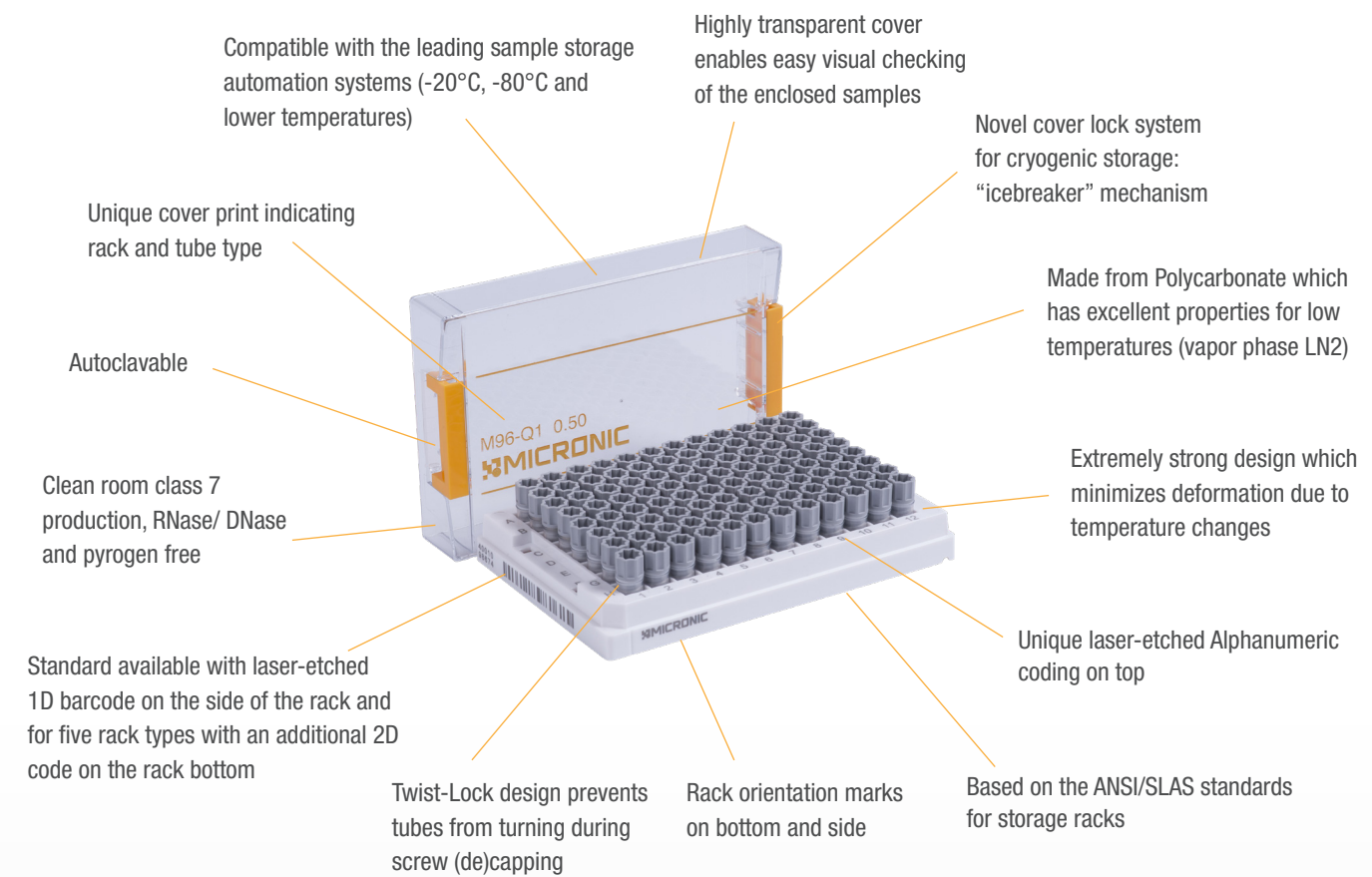


SUPERIOR RACK FEATURES



OPTIONAL SERVICES / FEATURES



Custom 1D Rack Barcode
Micronic offers the service to supply unique laser-etched 1D barcodes in customized formats on any side of the rack. The standard barcoded racks of Micronic are provided with a unique laser-etched barcode on the A1-H1 side of the rack.

STERILIZATION



Sterilization by Gamma Irradiation
Gamma irradiation is the most common sterilization method used on labware. 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 labware is independently certified to be absolutely DNA-free and therefore provides 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 and the feature is available for 0.50ml, 0.75ml, 1.10ml and 1.40ml tubes with internal thread.

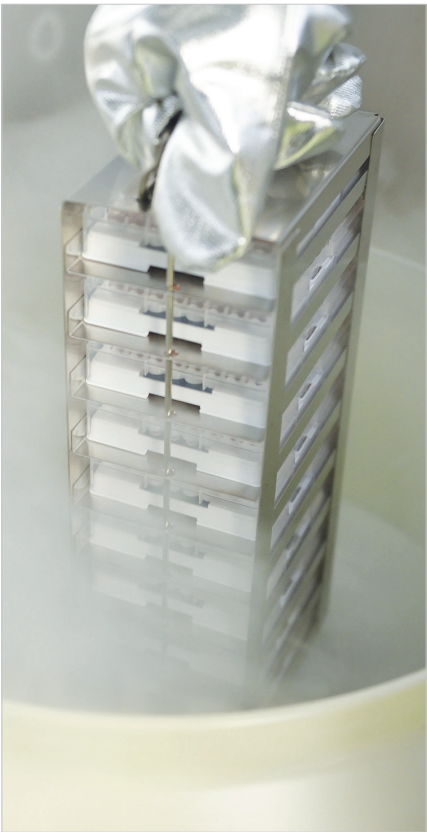


CRYOGENIC SAMPLE STORAGE

Storing samples at low temperatures is associated with extended viability of the preserved samples. While many samples are stored in mechanical freezers at -80°C, it is important to note that at this temperature metabolic activity has not ceased, it has only slowed down. By reducing sample temperatures to below the glass transition phase of water (-132°C), all metabolic activity comes to a halt. Sample storage below this temperature - in vapor phase LN2 - therefore assures a safe form of preservation.

Testing shows that the Micronic ULT Racks can be used in cryogenic temperatures until vapor phase LN2. Vapor phase LN2 temperatures range between -150°C and -196°C, depending on the location and the distance away from the liquid nitrogen vessel.

- Micronic does not recommend to store samples in liquid phase nitrogen, as there are several risks associated with storing samples in these kind of storage systems:
- Storage in LN2 includes the risk of the tubes being flooded by LN2 when the storage vessel is filled - LN2 may seep inside the tube when not correctly capped. LN2 trapped in a cavity expands rapidly when the tube is retrieved into room temperature, which may cause a significant explosion risk. No manufacturer can guarantee that LN2 will never penetrate into any tube during storage.
 - Research shows that laboratory staff should be aware of potential cross-contamination from e.g. viruses that retain infectivity after suspension in LN2.



COMPATIBILITY LABWARE EQUIPMENT



Архангельск (8182)63-90-72 Астана (7172)727-132 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Волгоград (844)278-03-48 Вологда (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06	Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48 Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Липецк (4742)52-20-81	Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16	Пермь (342)205-81-47 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78 Севастополь (8692)22-31-93 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13	Сургут (3462)77-98-35 Тверь (4822)63-31-35 Томск (3822)98-41-53 Тула (4872)74-02-29 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Ярославль (4852)69-52-93
Киргизия (996)312-96-26-47	Россия (495)268-04-70	Казахстан (772)734-952-31		

<https://micronic.nt-rt.ru/> || moc@nt-rt.ru



BROCHURE



NEXT GENERATION RACK RANGE

For Ultra-Low Temperature Storage

A STATE OF THE ART RACK RANGE WITH UNMATCHED FEATURES

Drawing upon 35 years of experience in manufacturing and supplying traceable sample storage solutions to research centers and laboratory facilities, Micronic has developed a Next Generation Ultra-Low Temperature Tube Storage Rack Range. The Micronic Ultra-Low Temperature (ULT) Racks do not simply have a nicer design - they are better in every way. The racks have many unique features including its extremely strong design for cryogenic storage, a novel “icebreaker” cover lock mechanism, cover prints indicating rack and tube type, rack orientation marks and a highly transparent cover which enables easy visual checking of the enclosed samples.

Precision manufactured in a certified Class 7 clean room production facility, the Micronic ULT Racks are based on the Society for Laboratory Automation and Screening (ANSI/SLAS) standards for storage racks and accommodate 96, 48 or 24 tubes. Absolute traceability and reproducibility on the racks is ensured through novel laser-etched alphanumeric visual location aids on top of the racks, a unique laser-etched 1D barcode on the side of the racks, and for five rack types an additional 2D code on the rack bottom. The open bottom design of the storage racks facilitate quick defrosting of samples.

Micronic 96-(Q)1 Rack

Internal Thread: 0.50ml tubes with Push Caps or Low Profile Screw Caps in 96-1 and 96-Q1, with Screw Caps in 96-Q1

External Thread: 0.30ml and 0.40ml tubes with Push Caps or Screw Caps (IG) in 96-1



Micronic 96-2 Rack

Internal Thread: 0.75ml tubes with Push Caps or (Low Profile) Screw Caps

External Thread: 0.75ml (hybrid) tubes with Push Caps or Screw Caps (IG)



Micronic 96-3 Rack

Internal Thread: 1.10ml tubes with Push Caps or (Low Profile) Screw Caps

External Thread: 0.80ml and 1.10ml tubes with Push Caps or Screw Caps (IG)



Micronic 96-4 Rack

Internal Thread: 1.40ml tubes with Push Caps or (Low Profile) Screw Caps

External Thread: 1.40ml (hybrid) tubes with Push Caps or Screw Caps (IG)



Micronic 96-5 Rack

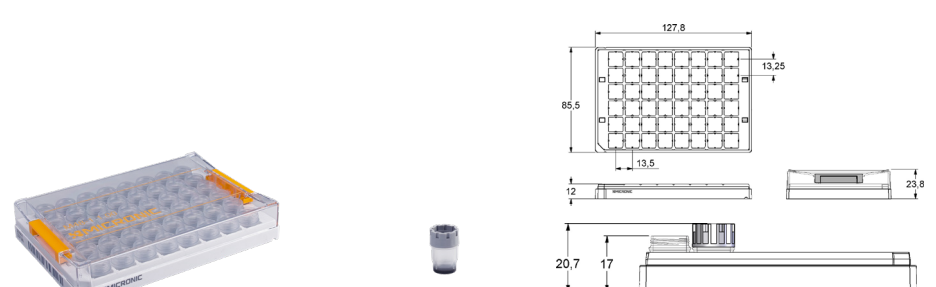
Internal Thread: 2.00ml tubes with Push Caps or (Low Profile) Screw Caps

External Thread: 2.00ml tubes with Push Caps or Screw Caps (IG)



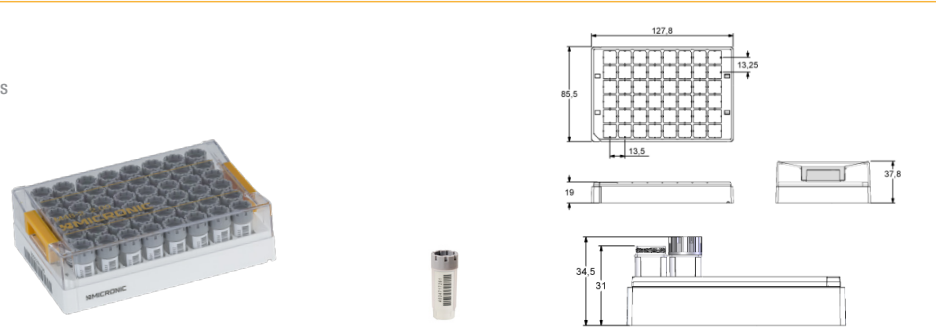
Micronic 48-1 Rack

External Thread: 1.00ml tubes with Screw Caps



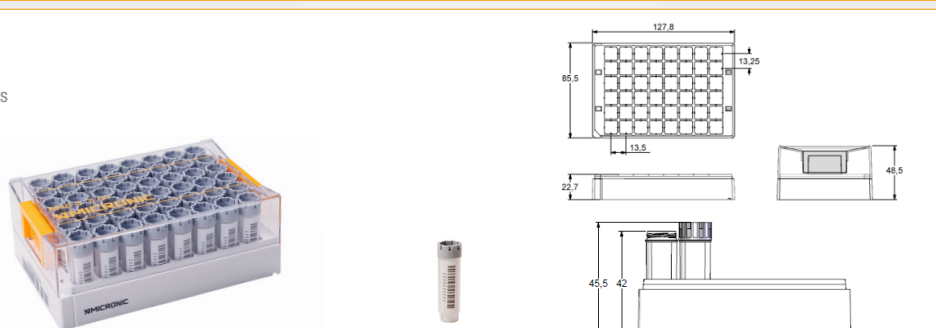
Micronic 48-2 Rack

External Thread: 2.00ml hybrid tubes with Screw Caps



Micronic 48-3 Rack

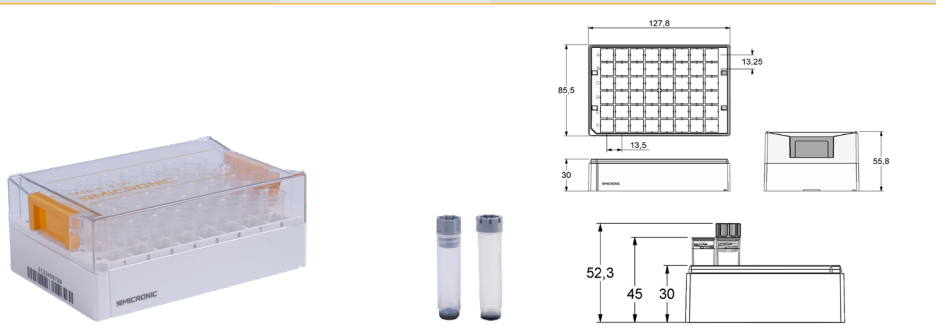
External Thread: 3.00ml hybrid tubes with Screw Caps



Micronic 48-4 Rack

Internal Thread: 4.00ml tubes with Screw Caps

External Thread: 4.00ml tubes with Screw Caps



DESIGNED IN COOPERATION WITH AUTOMATION COMPANIES

There is a trend among biorepositories and other laboratory facilities towards laboratory automation in order to increase and maintain sample integrity. This means that tube storage racks need to be designed in such a way that they are compatible with automated storage and handling systems. The Micronic ULT Racks therefore have an automation compatible American National Standards Institute/ Society for Laboratory Automation and Screening (ANSI/SLAS) dimensional footprint.

In addition to the standard ANSI/SLAS footprint, the ULT Racks are provided with more features ideal for automation. These features include: an outstanding Twist-Lock design which prevents tubes from turning during screw (de)capping, easy lead-in tube and cover placement, closed side walls with minimal notches for perfect rack orientation and the 1D rack barcode is inseparable with the rack for absolute tracking and tracing of the samples. The Micronic ULT Racks are already tested and in operation at low temperature automated storage systems.

Micronic 24-1 Rack

External Thread: 1.50ml and 3.00ml hybrid tubes with Screw Caps



Micronic 24-2 Rack

External Thread: 3.50ml tubes with Screw Caps



Micronic 24-4 Rack

Internal Thread: 6.00ml tubes with Screw Caps
External Thread: 6.00ml hybrid tubes with Screw Caps



Micronic 24-5 Rack

Contact us for compatible tubes



Micronic 24-6 Rack

Contact us for compatible tubes

