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collect - prepare - manage - store your samples



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☎ +1 724 941 6411

✉ info@nbsscientific.com

🌐 www.nbsscientific.com

ABOUT NBS SCIENTIFIC

Our mission, values and goals

NBS Scientific is an innovative distributor for the life science industry in the United States. We offer a wide range of products to help researchers preserve and protect their samples during the sample collection, liquid handling, sample preparation, sample analysis, cell cultivation, sample management and sample storage process.



When you choose to work with NBS Scientific, you're choosing a trusted partner that understands the scope and significance of your research. We strive to provide the highest quality products and the best possible service every day of the week. Whether you're searching for your first case of tubes or looking for an automated system, we're here to help - every step of the way.

Our product portfolio includes a range of consumables and equipment, including: sample stability reagents, sample storage tubes, pipette tips, rack thawing stations, barcode readers, benchtop equipment, frozen aliquotters, tube handlers, laser markers, tube labelers, and (de)cappers.



OUR VALUES

The four fundamental ideas that drive our company

INNOVATION



We are constantly exploring new markets to supply our customers with the most innovative products in the industry.

CREATIVITY



When customers ask us questions, we think beyond existing frameworks to help them solve unique challenges in the lab.

QUALITY



We provide products and services that are produced and carried out under the strictest quality standards.

SUSTAINABILITY



Our CSR program emphasizes sustainability and contributions to local and national charities.

table of contents

SAMPLE COLLECTION	4
GenTegra Sample Stability Reagents	5-6
Novitain 50-Well Format Rack, Caps & Capper	7
LIQUID HANDLING	8
Pipette Tips	9
SAMPLE PREPARATION	10
Frozen Sample Aliquotters	11
Rack Thawing Stations	12
Benchtop Devices	13-15
SAMPLE ANALYSIS	16
Cryovials	17
CELL CULTIVATION	18
CellSpin and CellRoll	19
SAMPLE MANAGEMENT	20
Tube Handlers	21
1D & 2D Barcode Readers	22-23
Laser Markers	24
Tube Processors	25
Tube Labelers	26-27
SAMPLE STORAGE	28
Sample Storage Tubes	29-32
Sample Storage Caps	33-35
Sample Storage Racks	36-37
Starter Packs, Tube Trial Packs & Freezer Racks	38-39
Cappers and Decappers	40-44
TECHNICAL SERVICE, BRANDS & CSR	45-47

our brands

CRYSTAL

basque
ENGINEERING SCIENCE

CRYSTAL

GenTegra

HTI | Smart Automation

MICRONIC
INNOVATION IN SAMPLE STORAGE

novitain

PFEIFFER

scinomix

SPL GUARD

sample collection



brands PROTECT SAMPLES DURING SHORT-TERM & LONG-TERM STORAGE

GenTegra At NBS Scientific, we offer GenTegra's full line of nucleic acid stabilization products, sample collection cards, and extraction kits. Their most popular product, GenTegra-RNA, is a water-soluble chemical matrix that immediately shields purified RNA from RNases. When dried, it protects RNA from extreme temperatures during shipping and storage.



GenTegra also offers the RNAssure elution tubes for immediate protection during RNA extraction and purification. Their newest product, GenTegra RNAdvantage, preserves RNA in fresh tissue samples at room temperature.

In addition to the GenTegra products, we offer 3 products from Novitain that can be used with sample collection tubes: a 50-well format rack, a complementary capcluster, and a manual capper for sealing tubes.

GENTEGRA STABILIZATION PRODUCTS

For protecting RNA and DNA during shipment and long-term storage

STABILITY REAGENTS

GENTEGRA-RNA

- Complete solution for ambient shipping of RNA samples, eliminating the need for dry ice, styrofoam packaging and overnight shipping
- Eliminates risk of losing precious samples during transport from sublimation of dry ice or fluctuations in temperature
- RNA samples shipped in GenTegra RNA are stable at room temperature for years with no sample degradation, meaning samples can be safely shipped over several days with standard ground shipping
- Compatible with RNA-seq, microarray methods, and qPCR analysis methods
- Simple workflow can be implemented for all labs: 1) apply RNA to GenTegra RNA tubes/wells; 2) dry for storage or shipping at ambient temperature; 3) recover samples by reconstituting with molecular biology grade water; 4) RNA is ready for use
- Available in multiple formats: screw cap tubes, 96-well microplates, 96-well rack format, bulk for 100 samples



GENTEGRA-DNA

- Complete solution for ambient shipping and storage of DNA samples at extreme temperatures (from -80°C to +72°C)
- Protects DNA for more than 20 years at ambient temperature based on accelerated studies
- Protects DNA samples without special environmental controls
- High quality DNA samples even after multiple cycles of drying and rehydration
- Supports direct use in STR, qPCR, and other analysis methods
- Available in multiple formats: screw cap tubes, 96-well plates, bulk for 100 samples



STABILITY REAGENTS

GENTEGRA RNASSURE

For protecting RNA during sample extraction and purification

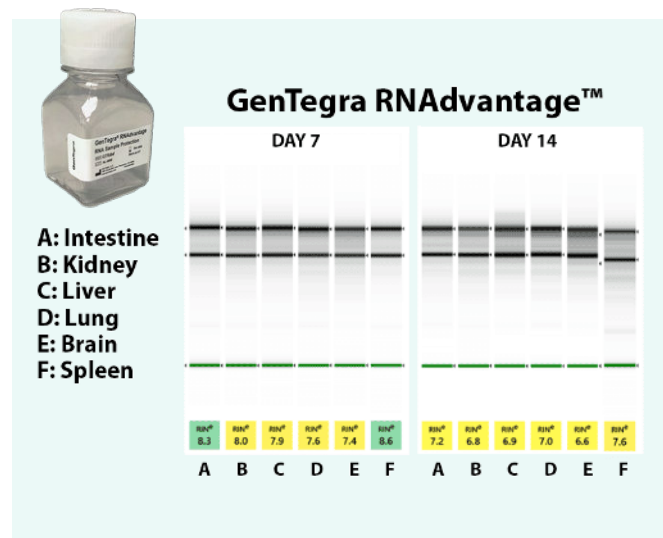
- An elution tube with GenTegra's patented chemical matrix dried down in the bottom
- Compatible with most column-based extraction and purification kits on the market
- Inactivates all residual RNase activity carried over from purification process or environmental contamination
- Protects RNA from oxidation damage, non-specific adherence to plastic, and adverse or accidental exposure to higher temperatures
- Protects RNA for at least 3 days at room temperature or 2 weeks at 4°C



PROTECT & PRESERVE YOUR RNA SAMPLES!

GENTEGRA RNADVANTAGE

For protecting RNA in fresh tissue samples



- Preserves RNA at room temperature in fresh tissue samples
- Non-toxic solution that can easily permeate tissue samples for RNA stabilization
- Consistently yields RIN values of ≥ 7 , ensuring excellent RNAseq results downstream
- User-friendly system: drop the tissue sample into ~ 10 times excess of the solution for immediate protection. Then, after shipment and storage, simply remove and process the sample as you normally would for RNA extraction

NOVITAIN

For short-term storage of sample collection tubes

50-WELL FORMAT RACK

- Compatible with 13.0mm diameter tubes
- Designed to ensure equal temperature for all tubes during cooled storage
- Resists chemical solvents
- RNase and DNase free
- Manufactured in Class 7 Clean Room
- Material: polypropylene
- Dimensions: 8.18in x 4.56in x 2.5in
- Height of tubes in rack: 85.5mm
- Height of tubes in rack (with caps): 86.5mm



COLLECTION TUBES

FLEX-50 SEAL MAT

- For short-term sealing of 13.0mm diameter sample collection tubes in a 50-well format
- Retaining foil can be removed to leave each tube individually capped
- Multi-pierceable without losing seal integrity
- Resists chemical solvents
- RNase and DNase free
- Material: thermo plastic elastomer
- Temperature range: -20°C to +100°C (without foil)
- Cap height: 5.5mm



MANUAL CAPPER MC2

- Seals 50 tubes at once in 2 seconds
- User friendly: place a Flex-50 seal mat on the racked sample collection tubes, place the rack in the unit, push the handle forward, pull the handle backward, remove the rack, and remove the retaining foil of the Flex-50 seal mat
- No adapters required; height adjustable
- Dimensions: 7.7in x 10.2in x 11.4in
- Weight: 26.5lbs



liquid handling



brands



PIPETTE TIPS FOR ROUTINE LIQUID HANDLING TASKS

Recently, we introduced the universal pipette tips from Crystal Technology and Industries. Produced in a Class 100,000 cleanroom, these tips are gamma irradiated sterile, free from endotoxins and PCR inhibitors, and RNase, DNase, and pyrogen-free.

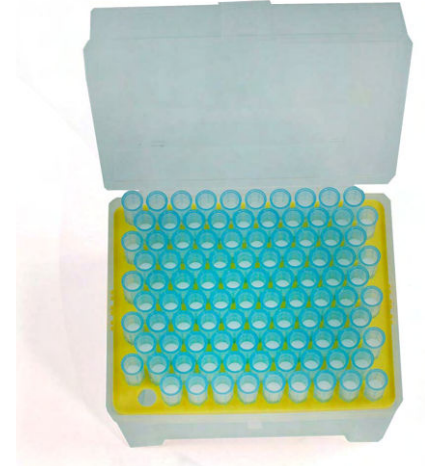
UNIVERSAL PIPETTE TIPS

Made from premium materials

FEATURES AND BENEFITS

- Produced in Class 100,000 clean room conditions
- Made from pharmaceutical grade polypropylene
- Available volumes: 10ul, 200ul, 1000ul
- RNase, DNase, and pyrogen-free
- No endotoxins or PCR inhibitors
- Compatible with various pipettes including Gilson, Eppendorf, and Thermo (Finn)
- Gamma irradiated sterile
- Hydrophobic filter avoids cross contamination
- Low retention tips reduce residue on inner wall to ensure accurate results
- 10ul tip length: 32mm
- 10ul order quantity: 10 racks of 96 tips
- 200ul tip length: 51mm
- 200ul order quantity: 10 racks of 96 tips
- 1000ul tip length: 78mm
- 1000ul order quantity: 10 racks of 100 tips

AVAILABLE
IN 3 SIZES!



PIPETTE TIPS

Interested in a quote?

Contact us today to check availability and lead time.

There are 3 ways to contact us:

- ☑ Email: info@nbsscientific.com
- ☑ Web: www.nbsscientific.com
- ☑ Phone: +1-724-941-6411

sample preparation



brands



PREPARE QUALITY SAMPLES FOR DOWNSTREAM RESEARCH

The CXT 353 from Basque Engineering + Science is a frozen sample aliquotter that can extract multiple frozen aliquots from the same parent sample. It extends the lifespan of rare samples by eliminating the freeze-thaw cycle. For manually aliquotting frozen tissue samples, the Tissue Xtractor Hand Tool is available.

If samples must be thawed, the SPL Guard Florida can be used to thaw up to 10 racks of tubes in just 9 minutes. For thawing individual racks, the SPL Guard Arizona is available.

For routine sample preparation tasks, we offer the full line of benchtop equipment from Crystal Technology & Industries. Their portfolio includes mini centrifuges, mixers, shakers, stirrers, incubators, FreezeCell™ cryopreservation boxes and FreezeBox™ cooling devices.

THE CXT 353 FROZEN ALIQUOTTER

A benchtop frozen aliquotter that increases the lifespan of samples

- Semi-automated, benchtop instrument that can extract multiple frozen aliquots from a range of frozen samples like tissue, feces, serum, plasma, whole blood, and urine
- Parent sample and frozen aliquots maintained between -80°C to -150°C via LN2 chilling
- Single-use, nuclease-free coring probes prevent sample-to-sample carryover and contamination
- Laser can be used to target specific sections for coring, but does not generate heat
- Eliminates damaging freeze-thaw cycles
- Compatible with wide range of vial types
- Technology allows for distribution of smaller sample volumes, extending the use of critical sample types like rare or late-stage disease, and pediatric samples



Left: A frozen aliquot extracted by the CXT 353 Frozen Sample Aliquotter from Basque Engineering + Science.

FROZEN ALIQUOTTERS

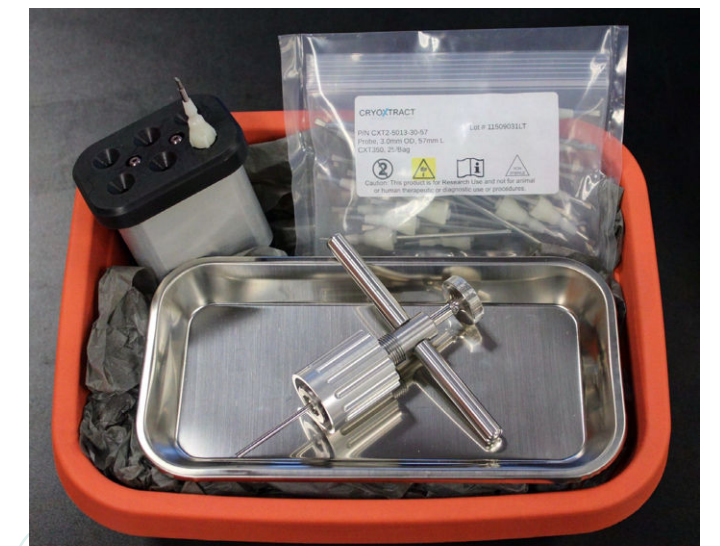


PREVENTS
DAMAGING
FREEZE-THAW
CYCLES!

TISSUE XTRACTOR HAND TOOL

For manually extracting aliquots from frozen tissue samples

- Handheld tool for extracting frozen aliquots from frozen tissue samples
- Creates uniform aliquots from 3mgs to 15mgs
- Compatible with most tissue types and sizes
- Can be used to target specific tissue sections
- Avoids manual slicing of tissue
- Eliminates freeze-thaw cycle, preserving frozen tissue without contamination
- Sold separately or as part of a kit, which includes: 6 bags of nuclease-free coring probes; 1 metal tray, 1 chilling nest for probes, 1 dry ice bucket, 1 Tissue Xtractor hand tool



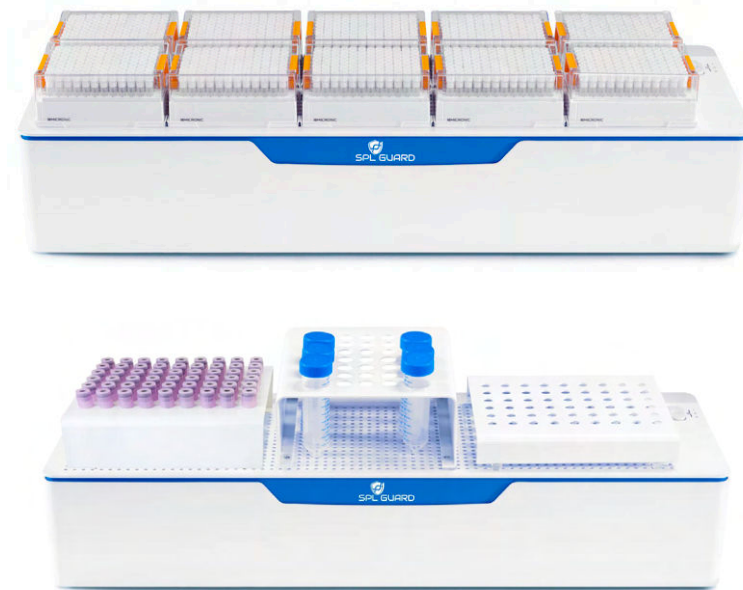
RACK THAWING

RACK THAWING STATIONS

Controlled-rate thawing solutions for valuable samples

SPL GUARD FLORIDA

- Thaws up to 10 racks in as little as 9 minutes
- Racks can be positioned in portrait or landscape orientation
- Can be used as a stand-alone system or be integrated into liquid handler
- Thaws samples at a consistent rate and temperature, guaranteeing sample quality
- Reduces uneven thawing to less than 20% per rack
- Includes 4 adapters: 1 rack adapter for ANSI/SLAS format racks, 1 adapter for 96-well format tubes, 1 adapter for centrifuge tubes, and 1 adapter for IVD-format tubes



SPL GUARD ARIZONA

- Thaws a complete rack of tubes with ambient air from -80°C to 5°C in 6 minutes
- Stops thawing when desired temperature is reached; confirms with a beeping sound
- Real-time temperature data displayed on screen during thawing cycle
- Compatible with range of SBS-format racks from brands like: Micronic, Azenta Life Sciences, Matrix, and LVL Technologies



Interested in a demo?

Contact us today to schedule a meeting with a Technical Sales Representative.

There are 3 ways to contact us:

- ✓ Email: info@nbsscientific.com
- ✓ Web: www.nbsscientific.com
- ✓ Phone: +1-724-941-6411

FREEZEBOX™

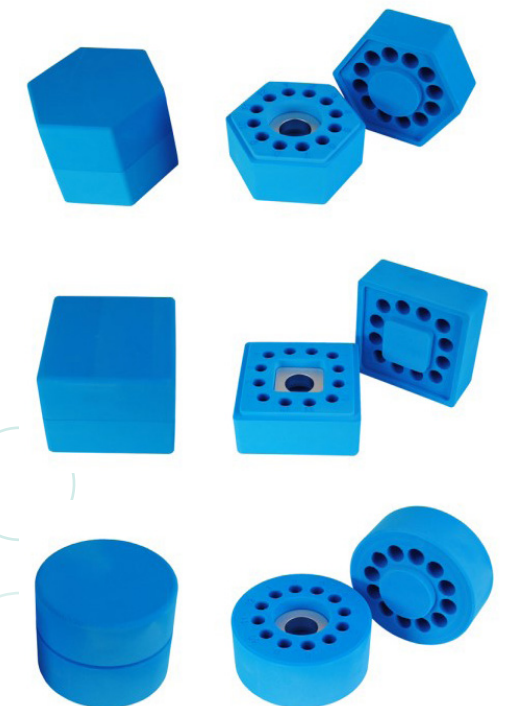
- Provides low temperature protection for biological samples during benchtop use
- Cryo-cores and tube modules have aluminum alloy shells with high thermal conductivity to ensure samples are quickly cooled
- Temperature difference between tube module holes is less than 0.1°C which maintains uniform temperature between samples
- Ice-free, lightweight, compact, easy to carry; ideal for use in tissue culture incubator, bio-safety cabinet or other applications with limited space
- Can be used with different ice cores and a variety of thermal test tube modules for use with different samples and temperatures
- To use: store cryo-core in ultra low temperature freezer for several hours; place desired tube module on top of chilled cryo-core; insert samples into tube module
- Note: FreezeBox is not intended for use in freezer



BENCHTOP DEVICES

FREEZECELL™ CRYO-BOXES

- 3 shapes available: hexagon, square, circle
- Each holds: (12) 1ml/2ml cryovials or (12) 1.5ml/2ml centrifuge tubes
- Ensures high cell survivability with a uniform, controlled, and gradual cooling rate
- Heat removal rate controlled by thermal-conductive alloy and advanced insulation
- Reusable without any alcohol or fluids required
- Easy to handle, not cold to touch when removed from freezer
- Small footprint, requires minimal freezer space
- No ice required, no consumables or pre-cooling wait time
- To use: place samples to be frozen in FreezeCell box and close lid; place FreezeCell box in -80°C environment for at least 3 hours; after cooling process, transfer samples to liquid nitrogen tank for long term storage



CONTACT
US FOR
ADDITIONAL
SPECS!

BENCHTOP DEVICES

SHAKERS & CENTRIFUGES

For routine laboratory processes



MINI ORBITAL SHAKER

- Ergonomic design with speed control & timer
- Gentle speed up and slow down
- Safe to use inside standard incubators
- No vibration or heat output
- Max load: 5.5lbs



3D NUTATING SHAKER

- Mixer with combined motions of orbital shaker & 2D platform rocker
- All models include dimpled, non-skid mat
- Speed range: 5-120rpm
- Timer: 0-100 hours



DIGITAL 2D ROCKER

- Ideal for blotting and staining applications
- Gentle mixing of solutions & reagents
- Large platform with hooks for rubber strips; fits various tubes, flasks, and bottles
- All models suitable for cold room & incubator



MINI CENTRIFUGE

- Ideal for quick spins, microfiltration of samples, cell separations, routine lab procedures
- Smooth & quiet operation
- Automatic stop when lid is opened
- Fits various tubes with included accessories

MIXERS, STIRRERS AND MORE

For routine laboratory processes

BENCHTOP DEVICES



DIGITAL TUBE ROTATOR

- Adjustable tilt angle and speed
- Continuous & timer mode with automatic stop
- Tube holders available for different tube sizes
- Compatible with cold room and incubator
- Capacity: 12x50ml, 18x15ml, 48x2ml, 9x50ml + 9x15ml + 12x12ml

INCUBATOR SHAKER

- Sliding platform and tempered glass door
- Precise temperature control (+5°C to 80°C)
- Speed: up to 300rpm & orbit diameter: 26mm
- Accessories include: test tube rack, flask clamp, sticky pad, infusion bottle, 96-well microplate holder, mini universal spring platform, etc.



MINI VORTEX MIXER

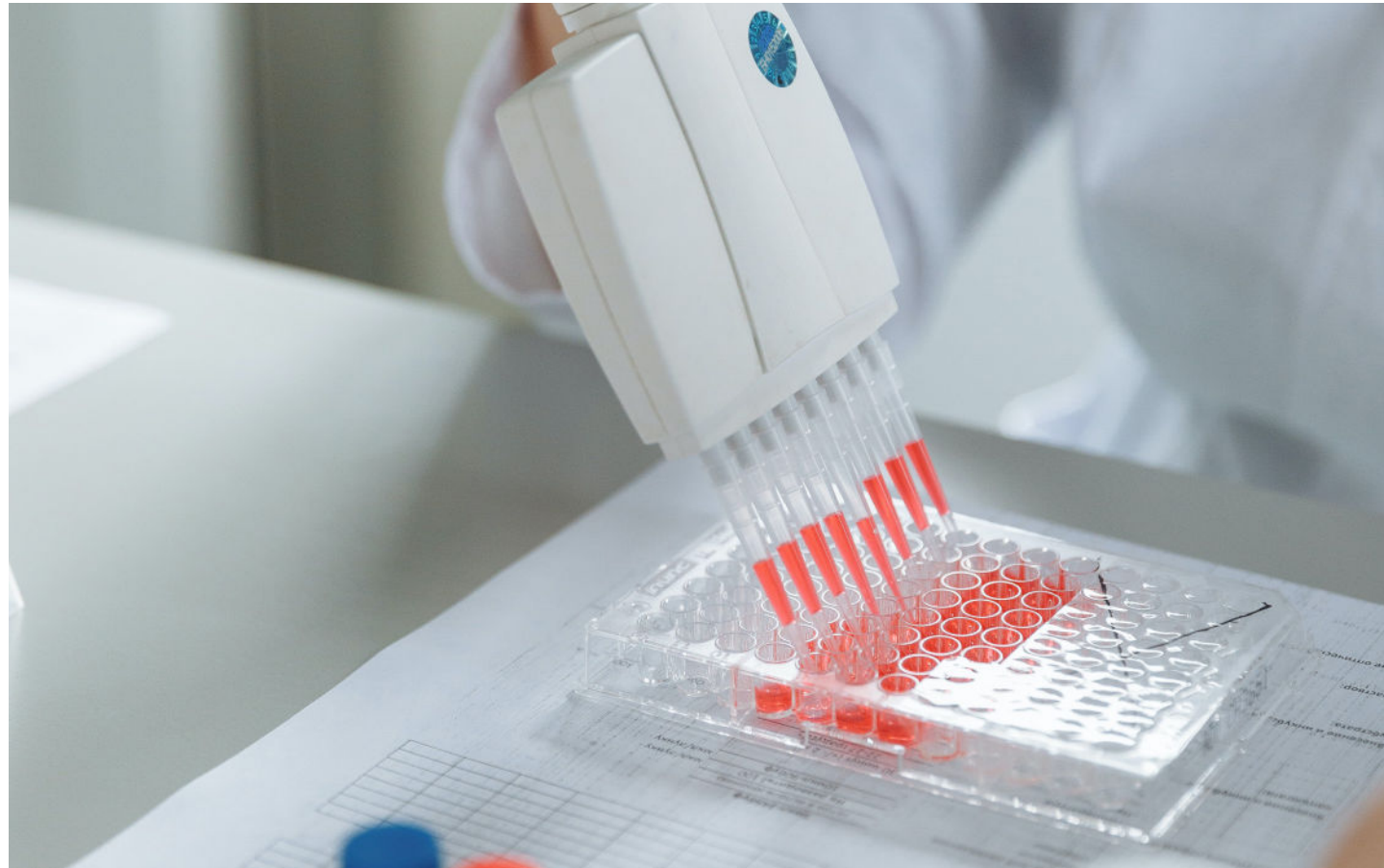
- Powerful vortexing for tubes up to 30mm
- 4 colors available: green, blue, purple, red
- Speed: 3,000rpm & circular oscillation
- Operating environment: ambient temperature
- Compact footprint & easy operation

HOTPLATE STIRRER

- Made of anodized high-grade aluminum alloy to ensure durability and resistance to corrosion
- Brushless motor = maintenance-free operation
- Fast heat time: <8 mins from ambient to 300°C
- Accessories available: stir bars & stir bar retrievers



sample analysis



brands



LEAK-PROOF CRYOVIALS FOR ULTRA-LOW TEMPERATURE STORAGE

The 2.00ml cryovials from Crystal Technology and Industries are designed to store samples in ultra-cold temperatures down to -196°C . They are produced in a Class 100,000 clean room, made from medical grade polypropylene, and are RNase, DNase, and pyrogen-free.

CRYOVIALS

Leak-proof cryovials for storing biological samples in temperatures down to -196°C

CRYOVIALS

FEATURES AND BENEFITS

- Choose from internal or external thread caps
- Internal thread cap has O-ring to reduce contamination during sample treatment
- Internal thread volume: 2.00ml
- Internal thread outer dimensions: 12.5x50mm
- External thread volume: 2.00ml
- External thread outer dimensions: 12.5x49mm
- Produced in Class 100,000 clean room conditions
- Made from medical grade polypropylene, ensuring optimal seal to prevent leakage
- RNase, DNase, pyrogen-free
- Gamma irradiated sterile
- Designed for freezing samples in various temperatures, including vapor phase liquid nitrogen (not designed to be used in the liquid phase of liquid nitrogen)
- Cryovials are transparent for easy observation
- Rounded bottom promotes complete pour out
- Temperature range: -196°C to 121°C
- Sold in packs of 50



Interested in a quote?

Contact us today to check availability and lead time.

There are 3 ways to contact us:

- Email: info@nbsscientific.com
- Web: www.nbsscientific.com
- Phone: +1-724-941-6411



PRODUCED IN
CLEAN ROOM
CONDITIONS!

cell cultivation

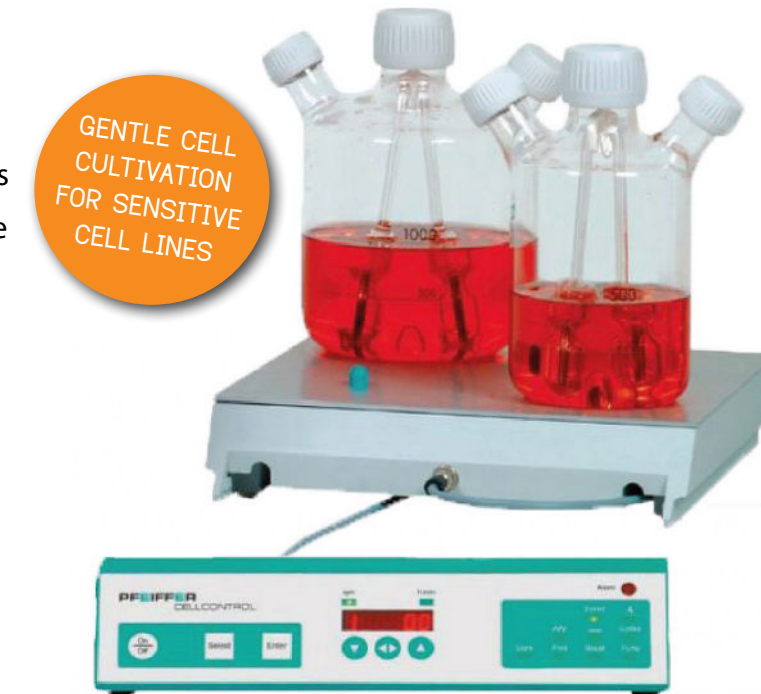
CELL CULTIVATION



CELLSPIN

A stirring platform for cultivating cells in spinner flasks

- Each CellSpin unit can hold up to 4 spinner flasks
- Spinner flasks are available in 4 sizes: 100ml, 250ml, 500ml, and 1000ml
- Conversion kit available for other, impeller-type flasks
- Precisely set parameters like stirring speed and pause intervals
- Speed ranges from 5 to 75rpm and can be adjusted in steps of 2.5rpm (5-40rpm) or in steps of 5rpm (40-75rpm)
- CellSpin spinner flasks have two glass pendula for optimum mixing and low shear forces
- Design of stirring platform prevents release and transfer of heat to cell suspension
- Dimensions: 11.61" L x 14.96" W x 2.95" H
- Weight: 7.50 lbs



brands

PFEIFFER

CELL CULTIVATION SYSTEMS THAT GROW WITH YOUR NEEDS

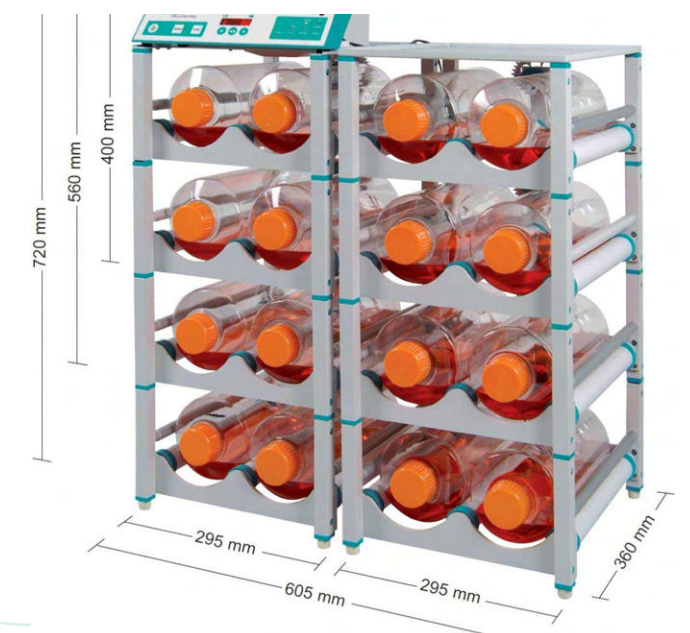
With the CellRoll system from Pfeiffer, researchers can gently grow cells in roller bottles by fine-tuning essential parameters like rotation speed, rotation direction, pause times, and interval cycles. The roller bottles are driven by a stepper motor to guarantee smooth rolling, and rotations are free from vibrations to avoid unnecessary shear and stress.

With the CellSpin systems from Pfeiffer, researchers can cultivate cells in spinner flasks by modifying parameters like stirring direction and pause intervals. It's designed to work with spinner flasks that have two glass pendulums, but flasks from other brands can be used as well.

CELLROLL

For optimized cell cultivation in roller bottles

- Fine-tune parameters like rotation speed
- Speed ranges from 0.1 to 2rpm and can be adjusted in steps of 0.1rpm
- Faster drive unit available to rotate bottles between 2-6rpm (adjustable in steps of 0.5rpm)
- All rolls of the instrument turning on high-quality ball-bearings free from vibrations to avoid shear stress
- Unit driven by stepper motor to guarantee smooth rolling from start to stop
- Modular design: can scale up from 4 to 16 roller bottles
- With two drive units, up to 32 roller bottles can be operated using one control unit
- Compatible roller bottles: up to 11.4" length (including lid) and 3.93" to 4.72" diameter



sample management



SIMPLIFY THE SAMPLE MANAGEMENT PROCESS IN YOUR LAB

To enhance the sample management process, we offer a range of laboratory equipment from brands like Micronic, AFYS3G, HTI Automation, and Scinomix.

With the automated HT700 Tube Handler from Micronic, researchers can sort up to 550 sample tubes per hour. Its semi-automated counterpart, the HT500, can be used to sort up to 400 sample tubes per hour.

With the Lambda576 Automated Laser Marker from AFYS3G, researchers can laser-etch up to 6 ANSI/SLAS format racks of tubes in sequence. Its manual counterpart, the Lambda8, can laser-etch individual tubes and other lab consumables with permanent markings.

To eliminate hand labeling tubes in the lab, we offer the fully-automated tube labeling systems from Scinomix. When paired with a bulk tube feeder (like the VXQ or VXi), these systems can label up to 300 tubes per hour. Additional modules can be added to dispense aqueous solutions and scan 2D barcodes. Plate labelers are also available.

THE HT500 TUBE HANDLER

An automated system that can sort and read up to 400 tubes per hour

TUBE HANDLERS

- Max rack capacity: 20 racks
- Rack ID and rack position linked by using a handheld barcode reader for scanning
- Compatible with 96-well format tubes: 0.30ml, 0.40ml, 0.50ml, 0.75ml, 0.80ml, 1.10ml, and 1.40ml in size
- Includes 1D handheld barcode reader and integrated 2D tube code scanner
- User-friendly, intuitive interface included
- Can be used as stand-alone device or integrated with LIMS systems
- Load CSV file pick list from USB stick
- Output CSV file of rack content

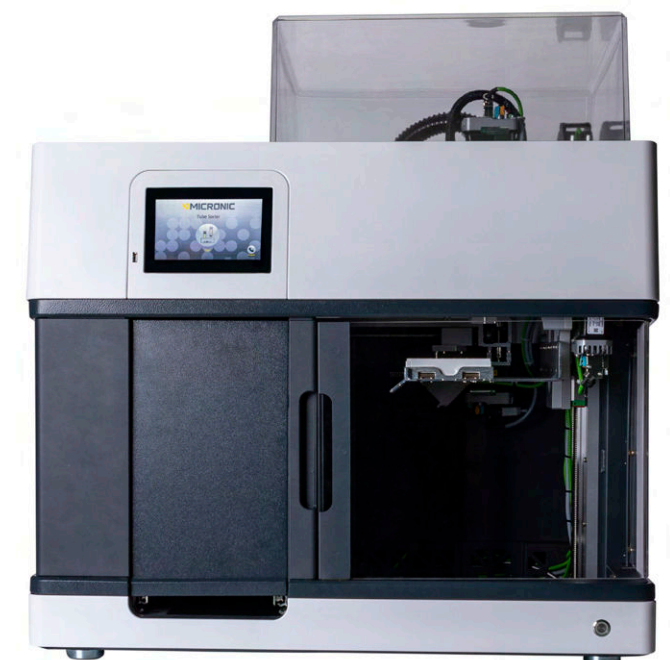


SORT YOUR
SAMPLES
FASTER!

THE HT700 TUBE HANDLER

An automated system that can sort and read up to 550 tubes per hour

- Max source rack capacity: 24 racks
- Max target rack capacity: 3 racks
- Designed with small footprint but large capacity
- Short distance between samples and target racks make for quick and easy sorting
- Automatic linking between rack ID and rack position; no need to use separate 1D code reader
- Closed system guarantees user safety; separate safety stop included for sample/product protection
- Compatible with 96-well format tubes: 0.30ml, 0.40ml, 0.50ml, 0.75ml, 0.80ml, 1.10ml, 1.40ml in size
- Includes 1D and 2D barcode reader
- User-friendly, intuitive interface included; no extra PC required
- Can generate "pick" list from LIMS system to load into unit via USB stick



CODE READERS

1D & 2D BARCODE READERS

For fast, accurate, and efficient sample identification



MICRONIC TUBE READER DT300

- Small, light-weight, portable device
- Can read any 1D barcode or 2D Data-Matrix code on 24-, 48-, and 96-well format tubes/racks
- Includes high capacity lithium polymer battery for approximately 10-12 hours of continuous use
- Recharge through USB connection
- Keyboard wedge functionality for direct data entry into LIMS system
- Scan time: < 1 second
- Weight: 0.17 lbs

MICRONIC TUBE READER DT510

- Reads 1D barcoded tubes and racks on front of reader and 2D Data-Matrix coded tubes on top
- Separate scanning locations ensure fast and accurate code reading
- Keyboard wedge functionality for direct data entry into various applications
- Compatibility: 24-, 48-, 96-well format tubes/racks
- No software installation necessary
- Sound indication when code is read
- Scan time: < 1 second

5-YEAR
WARRANTY
ON ALL CODE
READERS!



DID YOU KNOW...

The Micronic code reader software is included at no extra cost (along with free upgrades and tech support) when you purchase a full-rack code reader. Features include: an automatic re-read function to ensure all codes in the rack are deciphered quickly; high-quality images of the codes and tube IDs; "no tube, no code" function if tube cannot be found; adjustment controls for brightness, contrast, and threshold to optimize tube code display; and code polarity recognition (can read white codes on black code surface or black codes on white code surface).

MICRONIC TUBE READER DR505

- Reads whole racks of 2D Data-Matrix coded tubes
- Single tube reading function for 96-well format tubes
- Passive anti-frost system that minimizes condensation from frozen samples on scanner plate
- Includes Micronic Code Reader Software
- Optional 1D Side Barcode Reader available
- Full rack scan time: < 5 seconds
- Single tube scan time: < 2 seconds
- CIS imaging technology



CODE READERS



MICRONIC RACK READER DR700

- Reads whole racks of 2D Data-Matrix coded tubes
- Single tube reading function for 24-, 48-, and 96-well format tubes
- Passive anti-frost system that minimizes condensation from frozen samples on scanner plate
- Includes Micronic Code Reader Software
- Full rack scan time: < 7 seconds
- Single tube scan time: < 2 seconds
- CCD imaging technology

MICRONIC RACK READER DR710

- Reads whole racks of 2D Data-Matrix coded tubes
- Single tube reading function for 24-, 48-, and 96-well format tubes
- Has active anti-frost system that circulates ambient air within the scanner; prevents condensation from forming on the scanner plate
- Full rack scan time: < 7 seconds
- Single tube scan time: < 2 seconds
- CCD imaging technology



ELIMINATE
MANUAL
TASKS IN
THE LAB!

LASER MARKERS

INFORMATION MARKING SYSTEMS
For laser-etching tubes with permanent markings

THE LAMBDA8 MANUAL LASER MARKER

- Compatible with 0.30ml-15.00ml tube sizes
- Compatible with 96-, 48-, 24-well format tubes
- Markings are laser-etched onto tube surface
- Can laser-etch racks, rack covers, sample storage caps, and other labware
- Can laser-etch any shape, logo, text, or sample ID onto tube surface
- Laser engraved markings can't be separated from surface of tube
- Includes user-friendly software that can be used to create and select custom labware markings



THE LAMBDA576 AUTOMATED LASER MARKER

- Compatible with ANSI/SLAS format racks
- Max capacity: 6 ANSI/SLAS format racks
- No labels, stickers, or ink used to mark tubes
- User-friendly software can be used to laser-etch different markings: 2D codes, 1D barcodes, logos, text, or sample IDs directly onto tube surface
- Markings can't be separated from tube, ensuring absolute sample traceability
- Markings are resistant to chemicals, mechanical abrasion, and temperatures between -196°C and +100°C
- Can accommodate tubes from different brands



DID YOU KNOW...

Tubes with white side walls like the hybrid tubes from Micronic work best with the AFYS3G laser markers because of the stark contrast in color between the white tube walls and the laser-etched markings. The markings laser-etched onto the hybrid tubes give researchers the best opportunity to trace samples both visually and automatically, ensuring maximum traceability in the lab.



TUBE PROCESSORS
For automated tube and liquid handling

TUBE PROCESSORS

X-TUBEPROCESSOR BASIC

- Automated (de)capper for screw cap tubes
- Throughput: up to 600 tubes per hour
- Standard unit holds one rack of 96 tubes or two SBS racks of 48 tubes
- Rack feeder module available to process up to 6 racks without reloading
- Labeling module available
- Cap feeder holds at least 500 caps in bulk
- Compatible with 0.50ml, 1.50ml, and 2.00ml tubes from brands like Sarstedt, SSI, and Greiner
- Eliminates monotonous, manual work
- Reduces repetitive motions that can lead to occupational hazards like carpal tunnel syndrom



X-TUBEPROCESSOR SMART

- Automated (de)capper for screw cap tubes
- Ideal for more demanding applications where space is limited
- (De)capping throughput: up to 310 tubes per hour
- Standard unit holds up to 6 SBS footprint racks with 48 tubes each
- Labeling module available
- Cap feeder holds up to 1000 bulk caps
- Peristaltic pump module available to dispense liquids of almost all viscosities
- HEPA filter module available to create sterile environment inside unit
- Compatible with 0.50ml, 1.50ml, and 2.00ml tubes from brands like: Sarstedt, SSI, Biozym, Greiner
- Saves time and resources by automating manual processes like capping, labeling, and filling



TUBE LABELERS

SEMI-AUTOMATED TUBE LABELER

For eliminating the manual application of labels from your workflow

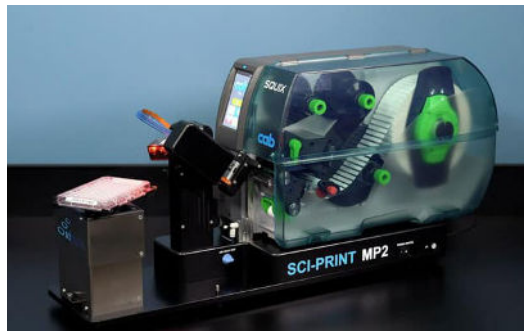
SCI-PRINT SOLO TUBE LABELER

- Compatible with 0.50ml to 50.00ml tubes (8mm to 29mm diameter)
- Use as stand-alone unit or integrate into larger automated system like the Tecan EVO
- Thermal transfer printer (300 or 600 dpi)
- Windows based software
- CE certified
- Consistent label placement
- Eliminates human error that can occur from hand labeling
- Increases productivity and efficiency in the lab



PLATE LABELERS

For printing and applying labels to microplates



SCI-PRINT MP₂ PLATE LABELER

- Semi-automated device that prints and applies labels to microplates for sample tracking
- Can be used as stand-alone unit or integrated into fully automated environment
- Has rotating, height-adjusting platform that provides flexibility to print on all sides and two vertical levels of microplates
- Barcode reader available for validation



SCI-PRINT MP₂+ PLATE LABELER

- Fully-automated device that prints and applies labels to microplates and deep well blocks
- Higher throughput for more walk away time
- Includes two vertical stackers for loading and unloading of microplates; additional stackers can be added to increase capacity
- Labels can be applied to all sides of the plate in any combination

FULLY-AUTOMATED TUBE LABELERS

For automating the entire tube labeling process in your lab

TUBE LABELERS

SCI-PRINT VX₂

- Fully-automated tube labeling system
- Additional modules available for receiving bulk tubes, filling tubes with aqueous solutions, and reading or validating tubes with 2D scanner
- Compatible with tubes and vials from 0.50ml to 50.00ml in size
- Throughput: 400 tubes per hour
- 6-position work deck that accommodates up to 600 tubes (if larger work deck required, the Sci-Print VXL is available)
- Has thermal transfer printer
- Can handle honeycomb plates
- With universal gripper, can handle multiple tube types with the same system
- Reduces repetitive injuries from hand labeling and eliminates human error



BULK TUBE FEEDER

For pre-racking tubes in the Sci-Print VX₂ or Sci-Print VXL

SCINOMIX VX_i

- Pairs with Scinomix labelers
- Provides more time savings by eliminating hand loading of tubes into racks
- Uses optical technology to detect tube orientation to aid in delivery for labeling/racking
- Compatible with internally and externally threaded tubes as well as capped and uncapped tubes (8mm to 28mm in diameter)
- Optional hopper extension available to increase tube capacity
- Allows researchers to purchase tubes in bulk for cost-savings



sample storage

SAFELY
STORE AND
PROCESS
SAMPLES IN
THE LAB!



brands



PRESERVE AND PROTECT SAMPLES DURING STORAGE

At NBS Scientific, we offer the full range of 96-well, 48-well, and 24-well format sample storage tubes, caps, and racks from Micronic. Tube volumes range from 0.30ml to 6.00ml and are available non-coded, alphanumeric-coded, or 2D Data-Matrix coded.

TPE push caps are available for internal and external thread tubes in 96-well format. Screw caps are also available for internal and external thread tubes in 96-well, 48-well, and 24-well format. The Micronic range of ultra-low temperature (ULT) racks have an extremely strong design for cryogenic storage.

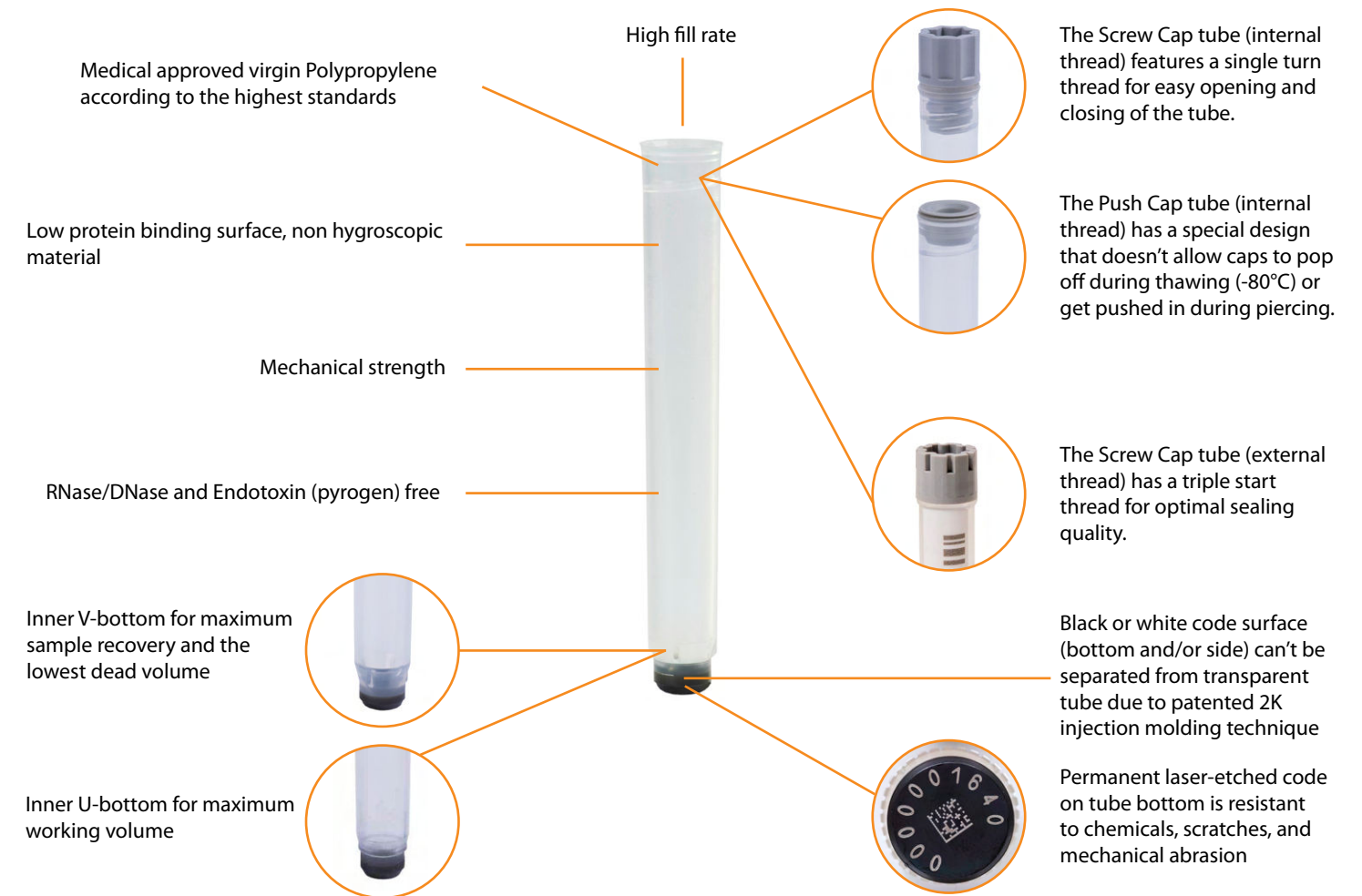
To process samples in the lab, we offer (de)cappers for push cap and screw cap tubes from brands like AFYS3G, Scinomix, and Micronic.

For lower throughput labs, we offer manual and semi-automated cappers like the CS500 and CP400. For higher throughput labs, we offer fully-automated cappers like the CS700, Sigma96, and Scinomix RapidCap2.

SUPERIOR FEATURES OF MICRONIC TUBES

For optimal storage in ultra-low temperatures

STORAGE TUBES



MICRONIC'S UNIQUE MANUFACTURING PROCESS

The Micronic sample storage tubes are manufactured to industry leading strict tolerances. Due to Micronic's unique 2K injection molding technique, the tube walls and code surface are molded into one component leading to the following advantages:

- Code surface cannot be separated from the transparent tube ensuring absolute traceability
- Solid and uniform walls allow maximum working volume
- No contamination during the production process
- Can withstand multiple freeze-thaw cycles with no leakages or caps popping off during freeze-thaw
- Can withstand grinding of samples by high speed bead beating for DNA/RNA extraction

STORAGE TUBES

INTERNAL THREAD TUBES

Overview and specifications



	0.50 ml	0.75 ml	1.10 ml	1.40 ml	2.00 ml	4.00 ml	6.00 ml
Storage Rack Ultra Low Temperature Rack	Loborack-96 Micronic 96-1/Q1	Loborack-96 Micronic 96-2	Roborack-96 Micronic 96-3	Roborack-96 Micronic 96-4	Roborack-96 Micronic 96-5	Micronic 48-4	Micronic 24-4
Thread Type Tube Type Inner Tube Shape	Internal Screw Cap tube V-bottom	Internal Screw Cap tube V-bottom	Internal Screw Cap tube V-bottom	Internal Screw Cap tube V- or U-bottom	Internal Screw Cap tube U-bottom	Internal Screw Cap tube Flat-bottom	Internal Screw Cap tube Flat-bottom
Working volume PC (+21°C)*	0.30ml	0.58ml	0.90ml	1.15 or 1.20ml	1.58ml	N/A	N/A
Working volume PC (-80°C)*	0.30ml	0.55ml	0.80ml	0.95 or 1.06ml	1.40ml****	N/A	N/A
Working volume SC (+21°C)*	0.21ml	0.48ml	0.80ml	1.04 or 1.10ml	1.49ml	2.70ml	4.80ml
Working volume SC (-80°C)*	0.21ml	0.48ml	0.73ml	1.01 or 0.98ml	1.25ml****	2.45ml	3.60ml
2D Data-Matrix Coded	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Alphanumeric-Coded	Yes	Yes	No	Yes	Yes	Yes	No
Non-Coded	Yes	Yes	Yes	Yes	No	Yes	Yes
Capping Options (SC = Screw Cap)	Low Profile SC Screw Cap Push Cap	Low Profile SC Screw Cap Push Cap	Low Profile SC Screw Cap Push Cap	Low Profile SC Screw Cap Push Cap	Low Profile SC Screw Cap Push Cap	Screw Cap	Screw Cap
Outer Diameter	9.0mm	9.0mm	9.0mm	9.0mm	9.0mm	13.0mm	16.3mm
Tube Height	18.5mm	26.0mm	36.5mm	44.0mm	59.0mm	44.0mm	43.4mm
Tube Height w/ PC**	19.5mm	27.0mm	37.5mm	45.0mm	60.0mm	N/A	N/A
Tube Height with SC	26.0mm	33.5mm	44.0mm	51.5mm	66.5mm	51.0mm	51.4mm
Available Precapped	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Twist-Lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Snap Tube Option	Yes	Yes	Yes	Yes	Yes	No	No
Sterilization Option	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DNase/RNase free	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Made in Class 7 Clean Room	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Min. Storage Temp***	VP LN2	VP LN2	VP LN2	VP LN2	-80°C***	VP LN2	VP LN2
Availability	Bulk, Rack	Bulk, Refill, Rack	Bulk, Rack	Bulk, Refill, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack

EXTERNAL THREAD TUBES

Overview and specifications

STORAGE TUBES



	0.30 ml	0.40 ml	0.75 ml	0.80 ml	1.00 ml	1.10 ml	1.40 ml	2.00 ml	3.50 ml	4.00 ml
ULT Rack	Micronic 96-1	Micronic 96-1	Micronic 96-2	Micronic 96-3	Micronic 48-1	Micronic 96-3	Micronic 96-4	Micronic 96-5	Micronic 24-2	Micronic 48-4
Thread Type Tube Type Inner Tube Shape	External Screw Cap V-bottom	External Screw Cap V-bottom	External Screw Cap V-bottom	External Screw Cap V-bottom	External Screw Cap Flat Bottom	External Screw Cap V-Bottom	External Screw Cap V-bottom	External Screw Cap V-bottom	External Screw Cap Flat Bottom	External Screw Cap Flat Bottom
Working Volume PC (+21°C)*	0.25ml	0.38ml	0.57ml	0.68ml	N/A	0.85ml	1.03ml	1.48ml	N/A	N/A
Working Volume SC (+21°C)*	0.32ml	0.40ml	0.60ml	0.75ml	0.85ml	0.93ml	1.11ml	1.55ml	3.35ml	3.40ml
Working Volume SC (-21°C)*	0.25ml	0.38ml	0.55ml	0.65ml	0.85ml	N/A	1.05ml	1.25ml	3.05ml	3.00ml
Working Volume SC (-80°C)*	0.25ml	0.36ml	0.55ml	0.65ml	0.85ml	N/A	0.94ml	1.25ml	3.05ml	3.00ml
2D Data-Matrix Coded	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Alphanumeric-Coded	No	No	No	No	No	No	No	No	No	No
Non-Coded	No	No	Yes	No	No	No	Yes	No	No	No
Capping Options	Screw Cap Push Cap	Screw Cap Push Cap	Screw Cap Push Cap	Screw Cap Push Cap	Screw Cap	Screw Cap Push Cap	Screw Cap Push Cap	Screw Cap Push Cap	Screw Cap	Screw Cap
Outer Diameter	8.8mm	8.8mm	9.0mm	8.8mm	13.0mm	9.0mm	9.0mm	9.0mm	16.3mm	13.0mm
Tube Height	16.4mm	21.8mm	30.0mm	34.8mm	16.0mm	41.0mm	48.0mm	63.0mm	30.0mm	48.0mm
Tube Height with PC	17.8mm	23.2mm	31.4mm	36.2mm	N/A	42.7mm	49.4mm	64.4mm	N/A	N/A
Tube Height with SC	19.9mm	25.3mm	33.5mm	38.3mm	19.7mm	44.6mm	51.5mm	66.5mm	33.5mm	51.5mm
Available Precapped	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Twist-Lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Snap Tube Option	No	No	No	No	No	No	No	No	No	No
Sterilization Option	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DNase/RNase Free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Made in Class 7 Clean Room	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Min. Storage Temperature**	VP LN2	VP LN2	VP LN2	VP LN2	VP LN2	VP LN2	VP LN2	VP LN2	-80°C***	VP LN2
Availability	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack

* If more sample volume is used in a tube than the specified working volume, possible deformation of the tube may occur. ** Also applicable for the Low Profile Screw Cap.
 *** Temperature range of the material of tubes, caps and racks is approved from -80°C to +100°C. In practice tubes are used in lower temperature until vapor phase LN2 (-150°C to -196°C). Micronic does not recommend storing tubes in liquid phase nitrogen (LN2). In practice tubes are only snap frozen in LN2 (without submerging the cap).
 **** For -80°C storage of the 2.00ml tube its recommended to always use rack with a cover.



Coding Options: non-coded tubes, alphanumeric-coded tubes, 2D Data-Matrix coded tubes.

STORAGE TUBES

HYBRID TUBES

Externally threaded tubes with 4 unique coding concepts

AVAILABLE
IN SMALL
PACKS!



Ultra Low Temperature Rack	Micronic 96-2	Micronic 96-4	Micronic 24-1	Micronic 48-2	Micronic 48-3	Micronic 24-1	Micronic 24-4
Thread Type	External	External	External	External	External	External	External
Tube Type	Hybrid tube	Hybrid tube	Hybrid tube	Hybrid tube	Hybrid tube	Hybrid tube	Hybrid tube
Inner Tube Shape	U-bottom	U-bottom	Flat-bottom	Flat-bottom	Flat-bottom	Flat-bottom	Flat-bottom
Working Volume PC (+21°C)*	0.57ml	1.03ml	N/A	N/A	N/A	N/A	N/A
Working Volume SC (+21°C)*	0.62ml	1.20ml	1.45ml	1.95ml	2.90ml	2.45ml	6.00ml
Working Volume SC (-21°C)*	0.62ml	1.06ml	1.40ml	1.80ml	2.60ml	2.25ml	5.55ml
Working Volume SC (-80°C)*	0.60ml	1.00ml	1.30ml	1.65ml	2.60ml	2.25ml	5.30ml
2D Data-Matrix Coded	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Alphanumeric-Coded	No	No	No	No	No	No	No
Non-Coded	No	No	No	No	No	No	No
Human Readable Coded (Bottom)	No	No	No	No	No	No	No
1D Barcoded (Side)	Yes	Yes	No	Yes	Yes	No	Yes
Human Readable Coded (Side)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Capping Options	Screw Cap Push Cap	Screw Cap Push Cap	Screw Cap	Screw Cap	Screw Cap	Screw Cap	Screw Cap
Outer Diameter	8.8mm	8.8mm	16.3mm	13.0mm	13.0mm	16.3mm	16.3mm
Tube Height	30.0mm	48.0mm	16.0mm	30.0mm	41.0mm	23.0mm	48.0mm
Tube Height with Push Cap	31.4mm	49.4mm	N/A	N/A	N/A	N/A	N/A
Tube Height with Screw Cap	33.5mm	51.5mm	19.5mm	33.5mm	44.5mm	26.5mm	51.5mm
Available Precapped	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Twist-Lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Snap Tube Option	No	No	No	No	No	No	No
Sterilization Option	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DNase/RNase free	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Made in Class 7 Clean Room	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Minimum Storage Temperature**	VP LN2	VP LN2	VP LN2	VP LN2	VP LN2	VP LN2	VP LN2
Availability	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack

DID YOU KNOW...

Micronic also offers Hybrid Tube Small Packs featuring 10 racks of hybrid tubes precapped with grey screw caps. The following tube sizes are available: 0.75ml and 1.40ml tubes in 96-well format; 2.00ml and 3.00ml tubes in 48-well format; 1.50ml, 3.00ml, and 6.00ml tubes in 24-well format.



INTERNAL THREAD SCREW CAPS

For securely sealing screw cap tubes for ultra-low temperature storage

STORAGE CAPS

STANDARD SCREW CAPS (INTERNAL THREAD)

- Made from polypropylene with high-quality silicon O-ring
- Compatible with Micronic screw cap tubes in 96, 48, or 24-well format from 0.50ml to 6.00ml in size
- Low profile screw caps save up to 33% of freezer space
- Available in 12 colors: grey, white, yellow, orange, red, pink, purple, blue, light blue, green, light green, black
- Resistant to chemical solvents
- Storage temperatures ranging from Vapor phase LN2 to +140°C



Also Available: the CS100 Screw Cap Recapper from Micronic can be used to manually decap individual screw cap tubes.

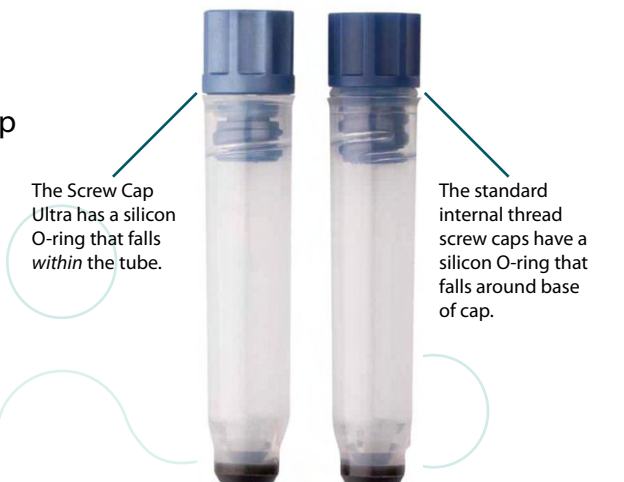
LOW PROFILE SCREW CAPS

- Made from polypropylene with high-quality silicon O-ring
- Compatible with the following Micronic screw cap tubes in 96-well format: 0.50ml, 0.75ml, 1.10ml, 1.40ml, 2.00ml
- Saves up to 33% of freezer space
- Available in 12 colors: grey, white, yellow, orange, red, pink, purple, blue, light blue, green, light green, black
- Resistant to chemical solvents
- Storage temperatures ranging from Vapor phase LN2 to +100°C



SCREW CAP ULTRA

- Made from polypropylene
- Silicon O-ring falls in the tube, sealing the tube with a "hard" stop
- Optimally designed for automated and manual handling
- Compatible with the following Micronic screw cap tubes in 96-well format: 0.50ml, 0.75ml, 1.10ml, 1.40ml, 2.00ml
- Available in 4 premium colors: red, blue, light green, yellow
- Resistant to chemical solvents
- Storage temperatures ranging from Vapor phase LN2 to +100°C



The Screw Cap Ultra has a silicon O-ring that falls *within* the tube.

The standard internal thread screw caps have a silicon O-ring that falls around base of cap.

STORAGE CAPS

EXTERNAL THREAD SCREW CAPS

Designed with a triple-start thread for the best seal quality

STANDARD SCREW CAPS

- Made from polyethylene
- Triple start thread ensures optimal seal quality for long-term storage at ultra-low temperatures
- Designed with unique lock when sealed to prevent screw cap from overturning
- Compatible with the 96-well format tubes from Micronic: 0.30ml, 0.40ml, 0.75ml, 0.80ml, 1.10ml, 1.40ml, 2.00ml
- Compatible with the 48-well format tubes from Micronic: 1.00ml, 2.00ml, 3.00ml, 4.00ml
- Compatible with the following 24-well format tubes from Micronic: 1.50ml, 3.00ml, 3.50ml, 6.00ml
- Available in 12 colors: grey, white, yellow, orange, red, pink, purple, blue, light blue, green, light green, black
- Storage temperatures ranging from Vapor Phase LN2 to +100°C
- Resistant to chemical solvents
- RNase, DNase, pyrogen free



SCREW CAP IG

Designed with a snap ring inside the cap for better handling by recappers

- Made from polyethylene
- New lead-in on top of screw cap, snap ring inside of screw cap, and tactile improvement on outside of cap ensures better automated and manual handling
- Optimized cap height (5.8mm) for more efficient storage in automated stores
- Available in 12 colors (same as standard screw caps)
- Resistant to chemical solvents
- RNase, DNase, pyrogen free



TPE PUSH CAPS

For securely sealing push cap tubes during long-term cryogenic storage

- Made from thermo plastic elastomer
- Compatible with 96-well format tubes (both internal and external thread)
- Several TPE cap formats available: Capcluster-96 leaves each tube individually capped; Capmat-96 holds 96 caps in fixed foil in which tubes are sealed together; Capband-8 or Capband-12 comes in mat format with lines to obtain cap strips
- Caps can be pierced repeatedly without losing seal integrity
- Available in 13 colors: grey, white, yellow, orange, red, pink, purple, blue, light blue, light green, green, black, natural (Capcluster-96)
- Cost-effective way to store push cap tubes in temperatures down to -80°C
- Resists chemical solvents
- RNase, DNase, and pyrogen free
- Special TPE push caps available for tubes with internal thread: Lyo Caps-96 are specifically developed for the lyophilization process as vents in the caps allow vapor to escape from the tubes
- Sterilization options available
- Can be precapped on Micronic tubes
- Can be manufactured with split septum to pierce with pipette tip

The CP620 TPE Decapper from Micronic



(DE)CAPPING
EQUIPMENT
AVAILABLE!

STORAGE CAPS

TPE Capcluster-96 Grey



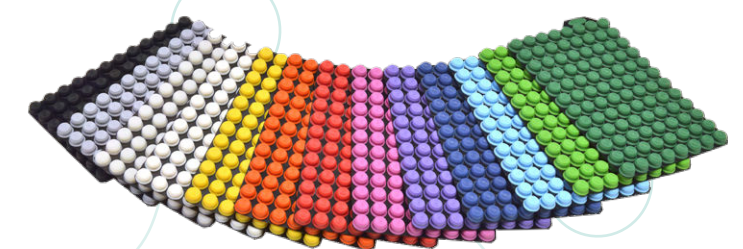
TPE Capmat-96 Grey



TPE Capband-8



Available TPE Capcluster-96 colors



STORAGE RACKS

MICRONIC ULT STORAGE RACKS

For sample storage at ultra-low temperatures



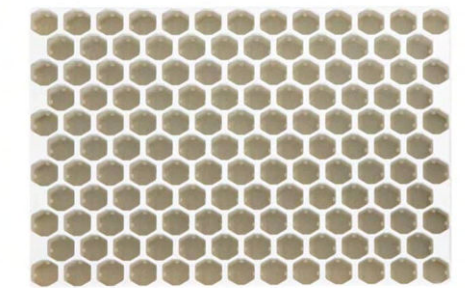
	Micronic 96-1	Micronic 96-Q1	Micronic 96-2	Micronic 96-3	Micronic 96-4	Micronic 96-5
Rack Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Rack Capacity	96 tubes	96 tubes	96 tubes	96 tubes	96 tubes	96 tubes
Compatible Tubes	0.30ml, 0.40ml, 0.50ml	0.50ml	0.75ml	0.80ml, 1.10ml	1.40ml	2.00ml
Compatible Thread	internal/external	internal	internal/external	internal/external	internal/external	internal/external
Rack Height, No Cover	12.0mm	16.0mm	19.0mm	22.7mm	30.0mm	41.0mm
Tube Height in Rack, No Cap or Rack Cover	17.4mm (0.30ml) 22.8mm (0.40ml) 19.5mm (0.50ml)	19.5mm	27.0mm (internal) 31.0mm (external)	35.8mm (0.80ml) 37.5mm (1.10ml)	45.0mm (internal) 49.0mm (external)	60.0mm (internal) 63.8mm (external)
Rack Height (Low Cover)	23.8mm	30.8mm	30.8mm	41.5mm	48.8mm	66.8mm
Rack Height (High Cover)	30.8mm	N/A	37.8mm	48.5mm	55.8mm	74.3mm
Available Barcoded	Yes	Yes	Yes	Yes	Yes	Yes
Twist-Lock	Yes	Yes	Yes	Yes	Yes	Yes
Sterilization Option	Yes	Yes	Yes	Yes	Yes	Yes
DNase/RNase Free	Yes	Yes	Yes	Yes	Yes	Yes
Sure Shot Design	No	No	No	No	No	No
Rack Locking System	Yes	Yes	Yes	Yes	Yes	Yes
Autoclavable**	No	No	No	No	No	No
Class 7 Clean Room	Yes	Yes	Yes	Yes	Yes	Yes
Temperature Range***	VP LN2 to +140°C	VP LN2 to +140°C	VP LN2 to +140°C	VP LN2 to +140°C	VP LN2 to +140°C	VP LN2 to +140°C
Chemical Resistance	++/+	++/+	++/+	++/+	++/+	++/+

STORAGE RACKS

138-2 HD RACK

Based on the Society for Laboratory Automation and Screening standards

- Made from polycarbonate, which has excellent properties for low temperature storage (down to vapor phase LN2)
- Compatible with 0.75ml and 0.80ml tubes
- Dimensions based on ANSI/SLAS standards for storage racks
- Increases number of samples that can be stored up to 43% compared to standard rack in ANSI/SLAS footprint
- Strong design, which minimizes deformation due to temperature changes
- Standard available with laser-etched 1D rack barcode
- Open rack bottom
- Compatible with automated processes
- RNase, DNase, and pyrogen free
- Sterilization options available
- Can be manufactured with custom 1D rack barcode



	Micronic 48-1	Micronic 48-2	Micronic 48-3	Micronic 48-4	Micronic 24-1	Micronic 24-2	Micronic 24-4
Rack Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Rack Capacity	48 tubes	48 tubes	48 tubes	48 tubes	24 tubes	24 tubes	24 tubes
Compatible Tubes	1.00ml	2.00ml	3.00ml	4.00ml	1.50ml, 3.00ml	3.50ml	6.00ml
Compatible Thread	external	external hybrid	external hybrid	internal/external	external hybrid	external hybrid	internal/external hybrid
Rack Height, No Cover	12.0mm	19.0mm	22.7mm	30.0mm	12.0mm	19.0mm	30.0mm
Tube Height in Rack, No Cap or Rack Cover	17.0mm	31.0mm	42.0mm	45.0mm (internal) 49.0mm (external)	17.0mm (1.50ml) 24.0mm (3.00ml)	31.2mm	44.0mm (internal) 49.0mm (external)
Rack Height w/ Low Cover	23.8mm	N/A	N/A	N/A	23.8mm	N/A	N/A
Rack Height w/ High Cover	N/A	30.8mm	41.5mm	55.8mm	30.8mm	37.8mm	55.8mm
Available Barcoded	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Twist-Lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sterilization Option	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DNase/RNase Free	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sure Shot Design	No	No	No	No	No	No	No
Rack Locking System	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Autoclavable**	No	No	No	No	No	No	No
Class 7 Clean Room	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Temperature Range***	VP LN2 to +140°C	VP LN2 to +140°C	VP LN2 to +140°C	VP LN2 to +140°C	VP LN2 to +140°C	VP LN2 to +140°C	VP LN2 to +140°C
Chemical Resistance	++/+	++/+	++/+	++/+	++/+	++/+	++/+

MICRONIC 96-DM RACK

For an extra layer of traceability

FEATURES AND BENEFITS

- Additional 2D code available on the following racks:
 - 96-1 ULT rack for 0.30ml, 0.40ml, and 0.50ml tubes
 - 96-Q1 ULT rack for 0.50ml tubes
 - 96-2 ULT rack for 0.75ml tubes
 - 96-3 ULT rack for 0.80ml and 1.10ml tubes
 - 96-4 ULT rack for 1.40ml tubes
- Compatible with Micronic's sample management and sample storage equipment: single tube and full rack barcode readers and (de)cappers

MAXIMIZE
TRACEABILITY
IN THE LAB!



STARTER PACKS

GETTING STARTED WITH 2D CODED TUBES

Push cap and screw cap options available



Basic Starter Pack

- 10 racks of 0.75ml or 1.40ml tubes
- 10 capclusters or 960 screw caps
- DT510 Tube Reader and DT300 Tube Reader
- Manual decapping tools



Standard Starter Pack

- 10 racks of 0.75ml or 1.40ml tubes
- 10 capclusters or 960 screw caps
- DR505 Rack Reader
- Manual decapping tools



Advanced Starter Pack

- 40 racks of 1.00ml, 3.50ml, or 4.00ml tubes
- Tubes precapped with grey screw caps
- DR505 or DR710 Rack Reader
- 1D side barcode reader



Premium Starter Pack

- 40 racks of 0.75ml or 1.40ml tubes
- 40 capclusters or 3840 screw caps
- CS500 or CP400 Capper
- DR505 Rack Reader
- Manual (de)capping tools



Premium+ Starter Pack

- 40 racks of 0.75ml or 1.40ml tubes
- 40 capclusters
- DR700 Rack Reader with 1D side barcode reader
- CP600 Capper
- Manual (de)capping tools

What's included?

- Tubes
- Caps
- Racks
- Scanner(s)
- (De)cappers

Just need tubes?

Check out our tube trial packs on the next page.

TUBE TRIAL PACKS

For testing your application with Micronic tubes

TRIAL PACKS

FEATURES AND BENEFITS

- Includes one unit (10 racks) of pre-racked 2D Data-Matrix coded tubes in the following sizes: 0.30ml, 0.40ml, 0.50ml, 0.75ml, 0.80ml, 1.10ml, or 1.40ml
- Includes enough screw caps or TPE push caps for capping all 10 racks of tubes
- Tubes available in Micronic ULT racks
- Micronic 2D Data-Matrix codes permanently laser-etched on tubes and 1D barcodes are permanently laser-etched on racks
- 100% quality control on all 2D Data-Matrix codes (readability and uniqueness)
- Micronic labware free of any detectable RNase or DNase contamination; endotoxin level of produced and packaged labware is limited to an acceptable minimum (<0.01 EU/ml)
- Micronic labware manufactured and assembled in-house in a NEN-EN-ISO 14644-1 Class 7 certified clean-room environment
- Sterilization using gamma irradiation or Eto treatment, precapped tubes, customized 2D Data-Matrix or 1D rack barcode



FREEZER RACKS

For organizing your samples in a safe and efficient manner

FEATURES AND BENEFITS

- Helps organize samples and maximize freezer space
- Minimize the amount of time searching for samples
- Racks are custom-built and manufactured to fit unique labware dimensions and freezers
- Designed to fit any freezer type
- Different rack types available: upright sliding racks, vertical racks, upright freezer racks with drawers, etc.
- Built from durable stainless steel
- Lifetime workmanship guarantee

FREEZER RACKS FOR EVERY FREEZER!



(DE)CAPPERS

SCREW CAP RECAPPER CS100

For manually decapping individual screw cap tubes



FEATURES AND BENEFITS

- Manual (non battery powered) stainless steel (de)capping tool for screw cap tubes
- Models available for 96-well, 48-well, and 24-well format tubes
- Stops turning when perfect seal established
- Ergonomic, light-weight solution for left and right-handed use

SCREW CAP RECAPPER CS500 SERIES

For decapping an entire row of screw cap tubes



FOR (DE)
CAPPING
SCREW CAP
TUBES!



MICRONIC DOCKING STATION

- Add to the CS500, CS510 and CS520 Screw Cap Recappers to create the consistency of an automated recapper
- Compact, benchtop unit for medium throughput labs
- Ensures consistent (de)capping for optimal seal performance
- Improves ergonomics
- Includes 1-year warranty

CS500 SERIES RECAPPERS

- (De)cap a row of 8 screw cap tubes (CS500), 6 tubes (CS510) or 4 tubes (CS520) in 5 seconds
- Can (de)cap a full rack of 96 tubes in 1 minute
- Minimizes cross-contamination
- Ensures that each screw cap is reproducibly and uniformly tightened
- Compatible with Micronic and other brands of tubes like Thermo, FluidX and LVL
- Includes 1-year warranty

SCREW CAP RECAPPER CS700

For capping and decapping entire racks of screw cap tubes



FEATURES AND BENEFITS

- Cap, decap, or recap a rack of 96 (CS700), 48 (CS710), or 24 tubes (CS720) in 30 seconds
- Can be used as stand-alone instrument or integrated into automated environment
- Touch screen can be used to select racks without needing adapters for different tubes
- Uses precisely determined torque value for high seal quality
- Minimizes sample evaporation and maximizes integrity of samples
- Compatible with Micronic and other brands of tubes like Matrix, FluidX and LVL

(DE)CAPPERS

SCINOMIX RAPIDCAP₂

For capping and decapping screw cap tubes between 0.50ml and 2.00ml in size



Capper Includes: Cap color detection feature to filter out wrong cap colors.



FEATURES AND BENEFITS

- (De)capping throughput: 4.75 seconds per tube
- User-friendly, touchscreen software
- Can process any cap color
- Cap color detection: filters out wrong cap colors that might represent specific samples in lab
- Plug-and-play system; configured to user's needs
- Cap hopper holds approximately 1,000 caps to increase walk-away time
- Designed to hold 2 SBS footprint racks; custom rack adapters available for other tube/rack sizes
- Flexibility to integrate into third party automation
- Small, benchtop device

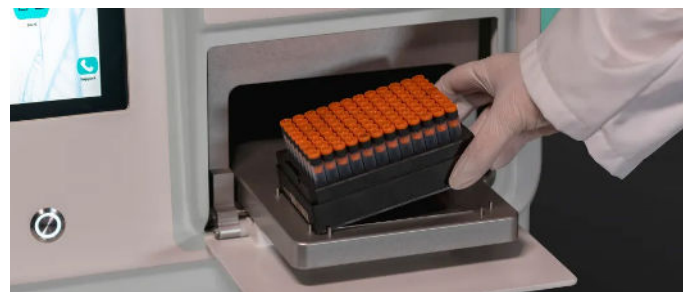
(DE)CAPPERS

SIGMA96 SCREW CAP RECAPPER

For capping and decapping full racks of ANSI/SLAS format screw cap tubes

FEATURES AND BENEFITS

- Caps and decaps full rack of tubes in a single action
- Cycle time: 30 seconds
- Models available for 96-well (Sigma96), 48-well (Sigma48) and 24-well (Sigma24) format screw cap tubes
- Compatible with screw cap tubes from various brands like Micronic, FluidX, LVL Technologies, and Thermo Matrix
- Precise torque value set for optimal sealing quality, thereby minimizing sample evaporation and maximizing sample integrity
- Intuitive touch screen interface
- Easily accessible for maintenance
- Equipped with an interface (API) for integration into fully-automated lab environments e.g. can work in sync with liquid handlers
- Includes tube detection sensor: will not cap and decap tubes if they're not properly positioned in the rack, which will prevent damaging samples
- Reliable and durable instrument for labs managing compound libraries or biological sample stores



Interested in a free demo?
Contact us today to schedule an appointment with a Technical Sales Representative.

There are 3 ways to contact us - - - - - >

- ☑ Email: info@nbsscientific.com
- ☑ Web: www.nbsscientific.com
- ☑ Phone: +1-724-941-6411

CP400 MANUAL PUSH CAP CAPPER

For manually capping racks of push cap tubes

FEATURES AND BENEFITS

- Uniformly cap an entire rack of 96 tubes in a single action
- Compatible with complete range of Micronic TPE or EVA style capmats, capbands and capclusters
- Also compatible with other brands of storage tubes and racks
- Can repeatedly and reliably cap tubes (up to 1.40ml) in ANSI/SLAS format racks up to a maximum height of 48mm



(DE)CAPPERS

CP600 PUSH CAP CAPPER

For capping racks of push cap tubes in less than 7 seconds

FEATURES AND BENEFITS

- Compatible with Micronic TPE capmats, capbands, capclusters, and EVA capmats
- Compatible with 96-well format tubes up to 1.40ml (48mm)
- CP610 model available for tube sizes up to 2.50ml (86mm)
- Seals entire rack of 96 tubes in 7 seconds
- Works with full or partially-full racks (min. of 10 tubes required)
- Guaranteed even capping result
- Operates without any buttons: place rack of tubes on drawer with caps and push drawer closed for automatic capping



CP620 AUTOMATED PUSH CAP DECAPPER

For decapping racks of push cap tubes in less than 8 seconds

FEATURES AND BENEFITS

- Compatible with Micronic's 96-well format tubes with internal thread (up to 1.40ml)
- Decapping throughput: 96 tubes in 8 seconds
- Minimizes cross-contamination
- Use as stand-alone unit or integrate into automated environment
- Simple and safe operation; no adapters required



DECAPPING TOOLS

MANUAL DECAPPING TOOLS

For decapping 96-well format push cap tubes

THE MANUAL DECAPPER-1

- Made of high-quality plastic
- Designed to remove a single push cap
- Compatible with Micronic TPE Push Caps, TPE LyoCaps, and EVA Push Caps in 96-well format for 0.50ml, 0.75ml, 1.10ml, 1.40ml, 2.00ml, and 2.50ml internal thread tubes
- Can also be used to decap TPE Push Caps from other brands
- Cost-effective solution for quick decapping
- Package size: 10 pieces



DECAPPING SOLUTIONS FOR EVERY LAB!

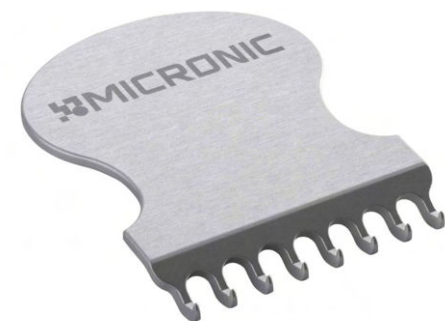
THE MANUAL DECAPPER-8

- Made of high-quality plastic
- Designed to remove a row of 8 push caps
- Compatible with Micronic TPE Push Caps, TPE LyoCaps, and EVA Push Caps in 96-well format for 0.50ml, 0.75ml, 1.10ml, 1.40ml, 2.00ml, and 2.50ml internal thread tubes
- Can also be used to decap TPE Push Caps from other brands
- Cost-effective solution for quick decapping
- Package size: 10 pieces



THE MANUAL DECAPPER-8 ALUMINUM

- Made from aluminum
- Designed to remove a row of 8 push caps from frozen tubes
- Compatible with Micronic TPE Push Caps, TPE LyoCaps, and EVA Push Caps in 96-well format for 0.50ml, 0.75ml, 1.10ml, 1.40ml, 2.00ml, and 2.50ml internal thread tubes
- Can also be used to decap TPE Push Caps from other brands
- Cost-effective solution for quick decapping
- Package size: 1 piece



TECHNICAL SERVICE

Preventative maintenance plans to keep your equipment in excellent condition



By investing in a preventative maintenance plan, you can make sure your equipment functions properly every day of the year. Regardless of your location, our service technicians will install, demo, and repair your equipment on-site or virtually. Need a preventative maintenance plan? Can't fix an issue on your own? Contact us to discuss your laboratory's needs. We'll help you solve the issue so you and your team can get back up and running in no time.

HAVE A SERVICE QUESTION?

Want more info about our service plans? Have questions about your equipment? Chat with us online, give us a call, or send us an email. A Service Technician will respond within 24-48 hours.



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TS@NBSSCIENTIFIC.COM



+1-724-941-6411

OUR BRANDS

At NBS Scientific, we offer products from the following brands:



AFYS3G is committed to improving laboratory processes by developing benchtop equipment that represents the 3Goals for which they were founded: enhance performance, empower integration, and ensure compatibility.



Basque Engineering + Science creates off-the-shelf and custom designed frozen sample aliquotting solutions for the life science community. They aim to help researchers preserve sample integrity and increase sample utilization.



Crystal Technology & Industries manufactures benchtop equipment, pipette tips, cryovials, cell preservation systems, and freezer racks for researchers in the life science industry.



GenTegra manufactures sample stabilization products to help researchers protect their RNA and DNA samples at ambient temperatures during long-term storage or shipping.



HTI Automation manufactures automated tube processors for the life science industry. While the X-TubeProcessor Basic can (de)cap screw cap tubes, the X-TubeProcessor Smart can be configured to (de)cap, label, and fill screw cap tubes.



Micronic manufactures innovative sample storage products for research laboratories in the life science industry. Their portfolio includes sample storage tubes, caps and racks, barcode readers, (de)cappers, and tube handlers.



Novitain offers three complementary products for the short-term storage of sample collection tubes. Their products include a 50-well format rack, multi-pierceable TPE caps, and a manual capper that can seal 50 tubes at once.



For more than 20 years, Pfeiffer has been developing automated and customized solutions for the laboratory technology industry. With their CellSpin and CellRoll product lines, they are focusing their activities specifically on the biotech market.



Scinomix manufactures semi-automated and fully-automated tube and plate labeling systems for researchers in the life science industry.



SPL Guard develops and produces laboratory equipment that can be used for the controlled preparation of biological samples prior to sample handling or sample storage in ultra-low temperatures.

CORPORATE SOCIAL RESPONSIBILITY

Our efforts to promote a more sustainable future

At NBS Scientific, we try our best to promote a more sustainable world by implementing different sustainability efforts in the office. We also contribute to organizations that advocate for the health and welfare of animals and human beings. Listed below are some of the initiatives we've spearheaded in-house to create a more sustainable work environment.

REDUCE WASTE



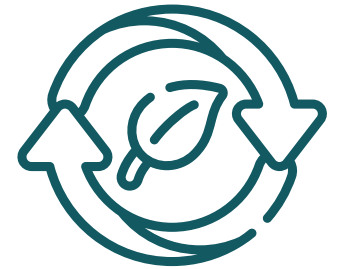
- Communicate via email. Only print documents when absolutely necessary
- Switch off all lights when not in use
- Reduce wooden pallet waste by donating to individuals and companies who can reuse or repurpose them

REUSE MATERIALS



- Reuse packaging from shipments when possible, including boxes, foam, and plastic air bubbles, and recycle any boxes damaged beyond use
- When possible, use sustainable cleaning products in recyclable containers

RECYCLE GOODS



- Emphasize recycling as a company-wide goal; use recycling bins for plastics, paper, cardboard, and metals
- Recycle empty ink cartridges
- Recycle electronics when necessary at local electronic drop-off locations

DID YOU KNOW...

Micronic proudly presents a more sustainable choice for sample storage with their 1.40ml and 4.00ml tubes, which have been verified by My Green Lab. These tubes now carry the ACT label—a premier eco-nutritional label for laboratory products that emphasizes Accountability, Consistency, and Transparency. ACT labels make it easy to choose safe and sustainable products. Reading the ACT label is simple: the lower the score, the lower the impact on the environment in terms of manufacturing, energy and water use, packaging, and end-of-life.

ACT. Accountability, Consistency, Transparency	
The Environmental Impact Factor Label	
Micronic 1.40 ml 2D Data-Matrix Coded Screw Cap Tubes Internal Thread in 96-4 Rack, MPS2551-220 Lelystad, The Netherlands	
Manufacturing	
Manufacturing Impact Reduction	3
Renewable Energy Use	No
Responsible Chemical Management	1
Shipping Impact	8.6
Product Content	10
Packaging Content	5
User Impact	
Energy Consumption	NA
Water Consumption	NA
Lifetime Rating	6
End of Life	
Packaging	4
Product	8
Environmental Impact Factor	45.6
Label Valid Through	February 2021

ACT. Accountability, Consistency, Transparency	
The Environmental Impact Factor Label	
Micronic 4.00 ml 2D Data-Matrix Coded Screw Cap Tubes External Thread in 48-4 Rack, MPS2810-Y20 Lelystad, The Netherlands	
Manufacturing	
Manufacturing Impact Reduction	3
Renewable Energy Use	No
Responsible Chemical Management	1
Shipping Impact	8.6
Product Content	10
Packaging Content	5
User Impact	
Energy Consumption	NA
Water Consumption	NA
Lifetime Rating	6
End of Life	
Packaging	4
Product	7.8
Environmental Impact Factor	45.4
Label Valid Through	February 2021