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innovative lab solutions

collect - prepare - analyse - manage - store your samples



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ABOUT NBS SCIENTIFIC
Our mission, values and goals



NBS Scientific is an innovative distributor for the life science industry in the United Kingdom. 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 best possible service every day of the week. Whether you're searching for 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, pipettes, pipette tips, PCR plates, deep well plates, rack thawing stations, barcode readers, benchtop equipment, frozen aliquotters, tube handlers, laser markers, tube labelers, (de)cappers, and heat sealers.



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.

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our brands

IBFYSI3G



GenTegra



PFEIFFER



sample collection



GENTEGRA STABILITY REAGENTS

For protecting RNA during shipping 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 stable at room temperature for years with no degradation of the sample, 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 or 96-tube rack format, in bulk for 100 samples

PRESERVE
SAMPLES
DURING
SHIPPING!



brands

GenTegra

novitain

SAMPLE STABILITY REAGENTS + COLLECTION TUBES

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 encountered during shipping and storage.

GenTegra also offers the RNAAssure elution tubes for immediate protection during RNA extraction and purification. Their newest product, GenTegra RNAAdvantage, 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 to seal the tubes.

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, in bulk for 100 samples



STABILITY REAGENTS

GENTEGRA RNASSURE

For protecting RNA during sample extraction and purification

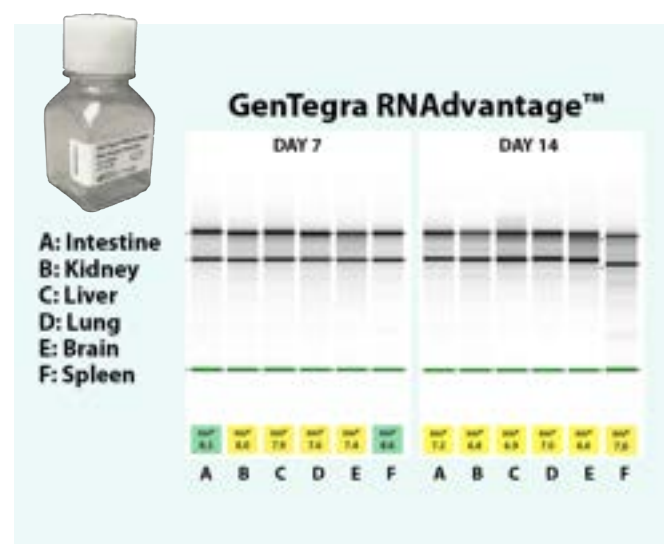
- An elution tube with GenTegra's patented chemical matrix dried down in the bottom
- Compatible with most column-based extraction and purification kits on the market
- Provides immediate protection to purified RNA samples upon elution
- Inactivates all residual RNase activity carried over from purification 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: 8.18 x 4.56 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: 26.5 lbs



liquid handling



PIPETTES AND PIPETTE TIPS FOR CONTROLLED DISPENSING

Our comprehensive range of pipettes from CAPP and Ritter Medical can be used to dispense liquids in a precise and controlled manner.

Looking for a manual or electronic pipette? We've got them. Need a single-channel *and* multi-channel pipette for different assays? We've got them. Need pipette tips for tools you already own? We've got those, too.

In addition to the standard pipette tips from Ritter Medical, we also offer their robotic pipette tips that work with liquid handlers from brands like Hamilton, Qiagen, Olympus, Tecan, Perkin Elmer, and Dynex.



SINGLE & MULTI-CHANNEL PIPETTES

For precise and efficient pipetting

PIPETTES

CAPP MAESTRO ELECTRONIC PIPETTE

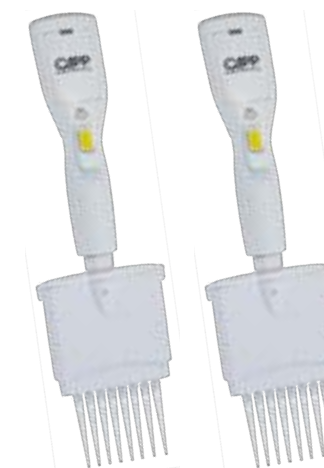
- Electronic single-channel pipette that offers advanced functions like multi-dispensing, dilution and mixing
- Includes self-explanatory full-color OLED graphic user interface
- Can easily store protocols and switch from one to another
- Equipped with long lasting lithium battery
- Can be used while charging
- Includes calibration and password setting functions
- Lightweight construction and ergonomic design
- Tip ejector works as finger rest for thumb; can rest thumb on tip ejector and activate the pipetting button at the same time
- Available in different sizes: from 0.20ul to 5000ul



DIFFERENT
PIPETTES FOR
DIFFERENT
ASSAYS!

CAPP TRONIC ELECTRONIC PIPETTE

- Electronic 8-channel pipette that offers standard pipetting, multi-dispensing, mixing, sequential aspiration (for dilution) and sequential dispensing
- Can store up to 9 individual protocols
- Includes long-lasting lithium battery
- Lightweight design with a stepper-motor
- Designed to optimize workflows without compromising accuracy or precision
- Compatible with most brands of pipette tips on the market
- Available in different sizes: from 2.00ul to 1200ul



CAPP AERO MULTI-CHANNEL PIPETTE

- 96-channel and 384-channel options available
- Reduces thumb workload, eliminating strain injuries & user discomfort
- Double silicon O-rings on nose cones eliminate the need to 'hammer' pipette into tip rack to mount tips
- One of the lightest pipettes on the market; easily maintainable and fully autoclavable
- Has anodised aluminum and metal nose cones to prevent breakage

PIPETTES



CAPP BRAVO AUTOMATIC PIPETTE

- Single-channel pipette with lightweight, ergonomic design for comfortable tip ejection and handling
- Manufactured from highest-quality autoclavable materials
- Volume lock feature achieves more reliable pipetting experience
- Metal cones with double O-rings avoid risk of breakage
- Smooth tip mounting
- Compatible with wide range of tip brands
- Available as a fixed or variable volume pipette with 9 volume ranges from 0.10ul to 10.00ml

ECOPIPETTE

- Single-channel micropipette that can be used as both a fixed and variable volume pipette
- Supplied in biodegradable or recyclable packaging
- Large pad for easy tip ejection
- Display fully visible during hand-held operation
- Double O-rings ensure optimal seal and low force tip mounting
- Anodised aluminum tip cones prevent breakage
- Reduced force requirement for aspiration and blow-out
- Fully-autoclavable
- Compatible with major pipette tip brands
- Available in different sizes ranging from 0.20ul to 5.00ml



RIPETTE PRO

- Single-channel pipette designed for dispensing of highly precise dosage volumes systematically
- Optimized for dispensing contaminated fluids and volatile liquids
- When used with Ritips Evolution and other compatible tips, Ripette Pro is reliably protected against contamination from aerosols ascending from the tip
- Offers wide range of dosing volumes, and allows for quick tip changes between 12 tip sizes
- Can dispense volumes from 1.00ul to 5.00ul
- By using 10-stage adjustment ring, up to 120 different program steps can be chosen



SEROLOGICAL PIPETTES

- Made from transparent medical-grade polystyrene sterilised by gamma irradiation
- Designed for accurate and rapid fluid dispensing
- Sterile, pyrogen-free and cotton-plugged for a variety of liquid handling applications
- Highly legible permanent graduation markings prevent ambiguity; guarantee precise reading and accurate dispensing
- Ideal for use with tissue culture applications
- Each pipette comes with filter barrier to prevent overflow
- Uniform mouth piece fits all major pipettes and is colour-coded for easy identification
- Available ordering options: in bulk (25 pipettes per bag) or individually wrapped



PIPETTE TIPS



STANDARD AND ROBOTIC PIPETTE TIPS

For a variety of manual and automated liquid applications

CAPP EXPELL TIPS

- Manufactured from virgin polypropylene
- Compatible with majority of pipette brands on the market
- Different lengths available for different applications within the same volume range
- Crystal clear, incremental marks for ease of use
- ExpellPlus Low Retention and Expell Standard tips available
- Manufactured in clean-room facility eliminates risk of contamination
- Certified RNase, DNase, DNA and pyrogen-free
- Available ordering options: tips in bulk, tips in racks, sterile tips in racks, tips in rack reload system, filtered tips in bulk



PIPETTE TIPS



RITIPS STANDARD

- Available in 8 classic sizes: 0.05ml, 0.50ml, 1.25ml, 2.50ml, 5.00ml, 12.50ml, 25.00ml, 50.00ml
- Ideal for working with infectious and volatile liquids; fluid will never touch the pipette which avoids contamination
- For sensitive applications or analysis of body fluids, Ritips are available as a bioclean® grade (individually sealed and sterilized)
- Each tip tested to guarantee non-leakage, which is documented in lot-specific records

RITIPS EVOLUTION

- Compatible with Ripette Pro® and other pipettes
- Compatible with multiple steppers for different applications
- Available in 9 tip sizes: 0.10ml, 0.20ml, 0.50ml, 1.00ml, 2.50ml, 5.00ml, 10.00ml, 25.00ml, 50.00ml
- Each tip tested individually to ensure 100% reliable & repeatable results
- Ordering options: packs of 25 or 100 tips, bioclean® quality (individually sealed and sterilized)



TIPS FOR
MANUAL AND
AUTOMATED
PROCESSES!

ROBOTIC TIPS BLACKKNIGHTS

- Produced in cleanroom conditions
- DNase, RNase, ATP and pyrogen free
- Conductive robotic tips, can be used to dose small volumes with high precision
- Conductivity helps liquid handlers recognize filling height & guarantees minimal immersion of tip into liquid
- Compatible with Hamilton, Qiagen, Olympus and other liquid handlers



ROBOTIC TIPS CLEARKNIGHTS

- Produced in cleanroom conditions
- Tested by independent laboratories to be DNase, RNase, ATP and pyrogen free
- Tips compatible with various Tecan, Qiagen, Perkin Elmer and Dynex liquid handlers



sample preparation



brands



EQUIPMENT TO PREPARE SAMPLES FOR DOWNSTREAM ANALYSIS

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.

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.

NBS Scientific also offers the full line of benchtop equipment from CAPP. Their portfolio includes a range of centrifuges, stirrers, shakers, vortexers, rollers, incubators, and plate washers.

FROZEN ALIQUOTTERS

THE CXT 353 FROZEN ALIQUOTTER

A benchtop frozen aliquotter that increases the lifespan of samples

- 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 from -80°C to -150°C via LN2 chilling
- Single-use, nuclease-free probes prevent sample-to-sample carryover and contamination
- Laser can be used to target specific tissue sections for coring (note: laser 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.

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; increases sample utilization
- Available 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



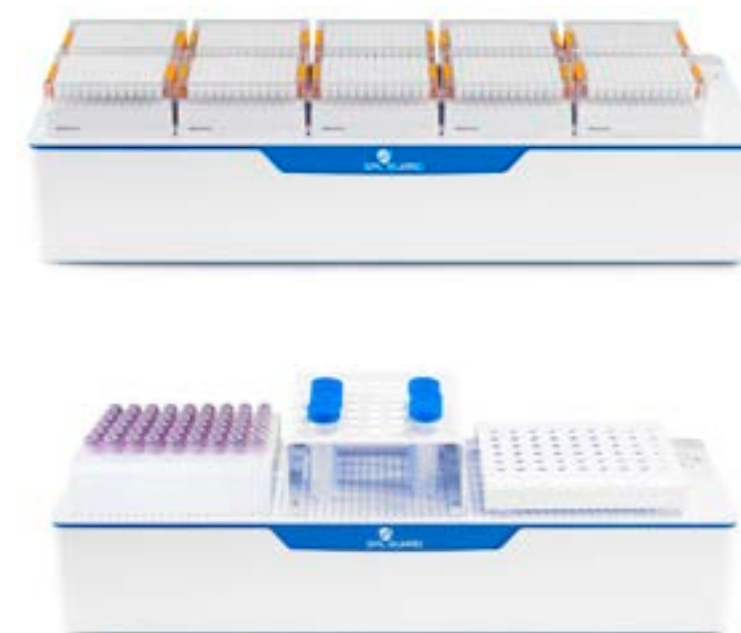
RACK THAWING STATIONS

A benchtop frozen sample aliquotter that maximizes the quality of samples

RACK THAWING

SPL GUARD FLORIDA

- Thaws up to 10 racks in as little as 9 minutes
- Racks can be positioned in portrait and/or landscape orientation
- Can be used as a stand-alone system or be integrated into a 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.co.uk
- ✓ Web: www.nbsscientific.co.uk
- ✓ Phone: 01223 603778

BENCHTOP
EQUIPMENT
FOR ROUTINE
PROCESSES!

BENCHTOP DEVICES

SHAKERS & CENTRIFUGES

For routine laboratory processes



MICROPLATE SHAKER

- Has orbital motion of 2mm (1mm radius)
- Speed range from 300rpm to 1800rpm
- Includes interchangeable clamps to fit all commonly used plates
- Can be used in cold rooms or fume hoods
- Applications: PCR, ELISA, enzyme immunoassays, protein synthesis and pharmaceutical profiling



3D SHAKER

- Has brushless DC motor technology
- Speed range from 10rpm to 120rpm
- 3D rocking motion for homogenous mixing
- Save up to 9 individual protocols
- Can run from 1 to 999 minutes or continuously
- Includes spiked rubber mat



PLATFORM SHAKER

- Operational capacity of 7.5kg
- Speed range from 50rpm to 300rpm
- Can run continuously from 1hr to 100hrs
- Adjust settings like motion direction, time, dwell time, sequence, and loop operation
- Program up to 6 individual protocols, each with 9 additional sub-protocols



CLINICAL CENTRIFUGE

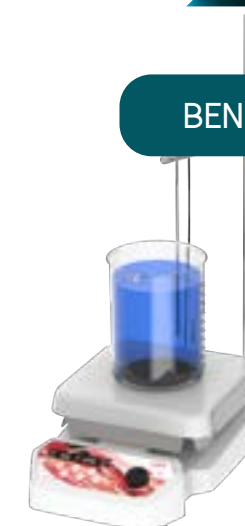
- For blood separation
- Speed range from 500rpm to 6500rpm, can be adjusted in 100rpm increments
- Has capacity for eight 15ml tubes, but adapters available to work with 1.50ml, 2.00ml, 5.00ml, 7.00ml, and 10.00ml tubes
- Digital display shows speed and time

MIXERS, STIRRERS, AND MORE

For routine laboratory processes

HOTPLATE STIRRER

- Has nano-crystalline glass ceramic top plate
- Can heat liquids up to 20 liters in volume
- Offers 6 heating modes, allowing users finer control over their heating and stirring procedures
- Temperature range from 25°C to 550°C
- Can add up to 99 individual programs



BENCHTOP DEVICES

VORTEX MIXER

- Ideal for thorough mixing and quick vortexing
- Has adjustable speed settings, can reach 4500rpm
- Vortexes with orbital motion
- Compatible with tubes up to 30mm in diameter
- Equipped with a brushless DC motor



MINI INCUBATOR

- Designed for tight spaces at 13.0" x 14.5" and 7.4kg
- Internal volume of 22 liters
- Can hold culture plates, vials, and 2 liter bottles
- Has adjustable shelves
- Can store samples from 15°C below ambient to 60°C for extended periods



PLATE WASHER

- 8-channel, 12-channel, or 16-channel versions available
- Does not require programming or electrical wiring connections
- Made of high-grade stainless steel and polypropylene, making it fully autoclavable and resistant to aggressive chemicals



COMPACT
MIXING &
HEATING
SOLUTIONS!

BENCHTOP DEVICES

VITL EQUIPMENT

For routine laboratory processes

CO-MIX

- Provides simultaneous, independently controlled microplate mixing and tube vortexing
- Speed range: up to 3,000rpm for mixer and 3,500rpm for vortexer
- Can create and store mixing profiles with variable ramp rates, mixing times, and speeds
- Supports 96 and 384-well skirted, semi-skirted, and unskirted microplates, deep well plates, 0.20ml PCR tubes, PCR strips, and 0.50ml, 1.50ml, and 2.00ml tubes



THER-MIX

- Compact, quiet, and low vibration thermal mixer
- Mixing speed range: 200rpm to 3,000rpm
- Create and store mixing profiles with multiple mixing and heating steps
- Provides temperature uniformity and stability for reliable and reproducible results
- Versatile heat blocks prevent condensation in samples
- Interchangeable heated modules support various sample tubes and vessels



FLEXI-THERM

- Compact, programmable dry block heater
- Provides accurate and repeatable sample heating for range of laboratory consumables
- Ideal for sample preparation and incubation
- Has visual countdown timer and audible alert on completion to prevent overheating
- Precise temperature control for safe sample handling
- Memory function for previously used settings



sample analysis



brands
CAPP
ritter
MEDICAL
Vitl
LIFE SCIENCE SOLUTIONS

CENTRIFUGE TUBES, PCR PLATES, AND THE LU-MINI

For researchers working on PCR and qPCR applications, we offer microcentrifuge tubes from CAPP along with their full range of non-skirted, semi-skirted and fully-skirted PCR plates. We also offer deep well plates from Ritter Medical for researchers handling microscopic samples. Finally, we offer a compact and lightweight luminometer (called the Lu-Mini) from Vitl Life Science Solutions.

PCR TUBES

PCR AND CENTRIFUGE TUBES

For storage and preparation of different sample types

CAPP EXPELL CRYOTUBES

- Compatible with automated & manual workflows
- Offer space savings of up to 23% when used with CAPP Expell 10x10 plastic cryoboxes
- Designed to withstand temperatures as low as -196°C; can be safely autoclaved at 121°C
- Colored cap inserts available to visually categorize samples in freezer
- White writing area included for labeling samples



BLUCAPP CENTRIFUGE TUBES

- Manufactured from polypropylene
- Easy-to-read graduations
- Large writing area (20x50mm)
- Leak-proof cap with ridges for optimal grip
- 3/4 turn closure allows for single-handed operation when opening and tightening
- Autoclavable at +121°C for 20 minutes
- Tested to endure 17,000 RCF
- Working temperature: -80°C to +121°C
- Available in 15ml and 50ml conical tubes



CAPP EXPELL PCR TUBES

- DNase, RNase, pyrogen free
- Polished interior prevents protein adhesion
- Can be safely autoclaved without melting
- Thin-walled design for optimal performance in thermocyclers
- V-bottom minimizes sample loss
- Available in 0.10ml and 0.20ml tubes
- PCR tubestrips and 96-well plates available



EXPELL PCR 96-WELL PLATES

Compatible with the most common thermocyclers on the market

PCR PLATES



- Manufactured from medical grade polypropylene
- Produced in a clean room environment to prevent contamination; DNase, RNase, pyrogen free
- Available in skirted, non-skirted, and semi-skirted formats
- Non-skirted PCR plates can be cut into smaller customized PCR plates, extending their utility
- Volume capacities range from 0.10ml-0.20ml
- Available in frosted and clear options
- Non-skirted and semi-skirted plates are heat stable; won't melt or warp on thermocycler blocks
- All PCR plates can be autoclaved safely
- Semi-skirted plates automation ready; can be used in protocols that use robots

EXPELL PCR 384-WELL PLATES

For processing microscopic sample volumes

- Manufactured from special blend of polypropylene designed specifically for PCR and qPCR applications
- Fully-skirted, rigid, flat, and stackable plates
- Highly transparent material, ideal for applications where optical qPCR signal obtained through plate bottom
- Fit standard 384-well cyclers and can be used in many 384-well block qPCR cycler models
- Ideal for robotic applications, enabling high-throughput and low-volume processing
- Have specially treated ultra-thin walls to minimize binding of proteins
- DNase, RNase, and pyrogen free
- Can be autoclaved safely
- Evaporation grade less than 3%, enabling processing PCR volumes as small as 5.00ul



COMPATIBLE
WITH MOST
THERMAL
CYCLERS!

DEEP WELL PLATES

RITTER DEEP WELL PLATES

For storage and preparation of different sample types

RIPLATE® MAGNETIC

- Developed specifically for magnetic separation technology: for the filtration of proteins as well as the extraction of DNA
- Highly resistant toward commonly used chemicals, solvents, and alcohols
- Highly stable during centrifugation
- Working volume of 20µl-1000µl & total volume of 0.20ml-2.00ml per well
- Alphanumeric-coded
- Raised rims reduce risk of cross-contamination
- Newly developed cylindrical wells enable good bioturbation of samples



PREPARE
SAMPLES FOR
DOWNSTREAM
RESEARCH!



RIPLATE® 96

- Manufactured out of polystyrene to achieve optimal surface for microscopic analysis
- Standardized dimensions of plate (128mm x 85mm) ensure compatibility with common laboratory instruments
- Ideal for ELISA applications
- Available in different shapes (U-, V-, and F-shape) and can be sterilized upon request
- Alphanumeric-coded

RIPLATE® 384

- Optimal for smaller volumes
- Available in polypropylene and polystyrene for automated screening and storage systems
- Available in different colors: clear (PS), transparent (PP), white (PS), black (PS)
- Alphanumeric-coded
- Round cavities for reduced capillary forces
- Flat-bottom and V-bottom versions available
- 3mm high frame for stable & slip-free stacking



RIPLATE® ROUND WELLS

- Versions available in polypropylene and polystyrene
- Versions available for use in thermocyclers or for defrosting of samples in hot water baths
- Available in 1.00ml and 2.00ml well volumes
- Raised wells reduce risk of cross-contamination
- Optimized footprint according to SBS standard
- For applications with extreme temperature circumstances like freezing or defrosting
- Highly resistant to chemicals; ideal for sensitive diagnostic applications



DEEP WELL PLATES

RIPLATE® SQUARE WELLS

- Made from high-quality polypropylene
- Plate wells designed to ensure maximum amount of liquid is absorbed during sample storage process
- Manufactured according to SBS standards; designed to maximize sample storage capacity
- Available with U- or V-bottom wells
- Available in 96, 48, or 24-well formats



RIPLATE® MEDIO

- Made from high-quality polypropylene
- Lower plate height & wider wells mean you can store similar volumes as other Riplates®, yet stack more plates for optimal storage
- Higher well rims allow for airtight closure or sealing of plate
- Newly developed conical wells provide good bioturbation
- Riplate medio 0.50ml: 20.5mm in height; total volume of 0.65ml per well; working volume of 20ul-500ul per well
- Riplate medio 1.00ml: 27.0mm in height; total volume of 1.20ml per well; working volume of 50ul-1000ul per well



DEEP WELL PLATES

RITTER PCR PLATE

For high-quality qPCR results

FEATURES & BENEFITS

- Made with polycarbonate rigid frame and polypropylene wells for optimal thermal transfer
- White wells ensure high-quality qPCR results by concentrating fluorescent signal, preventing loss signal, and allowing for better signal detection
- Barcoded and non-barcoded versions available
- Standard SBS format for use with automation
- Designed with 8 notches for easy insertion on thermoblock
- Alphanumeric well markings
- 200ul total well volume
- Free from DNA, DNase, RNase, and PCR inhibitors



OPTIMIZE
YOUR qPCR
RESULTS!

THE LU-MINI

A lightweight and versatile luminometer

- Ideal for use in the field or back at the lab
- Powered by USB; plug-and-play where you are
- Suitable for various applications, including: ATP determination, hygiene monitoring, water testing, active enzyme measurement, DNA probe assays, mycoplasma detection, cell-based assays, drug discovery, veterinary
- No adapters required; directly accepts 10-15mm round tubes and vials and 10mm square cuvettes
- Easy and versatile protocol selection including: single/dual point, peak detect, and kinetic data collection to tailor and optimize assay protocols and performance
- Storage capacity for up to 1000 test results
- Intuitive LCD touchscreen interface
- Solid-state detector
- 1-year warranty



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.co.uk
- ☑ Web: www.nbsscientific.co.uk
- ☑ Phone: 01223 603778

cell cultivation



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.

CELL CULTIVATION

CELLSPIN

A stirring platform for cultivating cells in spinner flasks

- Each CellSpin unit can hold up to four 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 5rpm 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 the cell suspension
- Dimensions: 11.61" L x 14.96" W x 2.95" H
- Weight: 7.50 lbs



GENTLE CELL
CULTIVATION
FOR SENSITIVE
CELL LINES

CELLROLL

For optimized cell cultivation in roller bottles

- Fine-tune parameters like rotation speed
- Speed ranges from 0.1rpm 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 turn on high-quality ball-bearings that are 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



SOLUTIONS FOR MANAGING YOUR SAMPLES IN THE LAB

To optimize the sample management process, we offer a range of laboratory equipment from brands like Micronic, AFYS3G, 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 250 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.

brands
MICRONIC

AFYS3G

scinomix

TUBE HANDLERS

THE HT500 TUBE HANDLER

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

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



AUTOMATE
THE SAMPLE
SORTING
PROCESS!

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 and product protection
- Compatible with 96-well format tubes: 0.30ml, 0.40ml, 0.50ml, 0.75ml, 0.80ml, 1.10ml, 1.40ml
- 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



1D & 2D BARCODE READERS

For fast, accurate, and efficient sample identification

CODE READERS

MICRONIC TUBE READER DT300

- Small, light-weight, portable device
- Can read 1D barcode or 2D Data-Matrix code on 24-, 48-, and 96-well format tubes/racks
- Includes high capacity lithium polymer battery; approximately 10-12 hours of continuous use
- Recharges 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



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 a tube cannot be found; adjustment controls for brightness, contrast, and threshold to optimize tube code display; code polarity recognition (works with white codes on black code surface or black codes on white code surfaces).

CODE READERS



MICRONIC TUBE READER DR505

- Reads full racks of 2D Data-Matrix coded tubes
- Single tube reading function for 96-well tubes
- Includes 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

MICRONIC RACK READER DR700

- Reads full racks of 2D Data-Matrix coded tubes
- Single tube reading function for 24-, 48-, and 96-well format tubes
- Includes 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



5-YEAR
WARRANTY
ON ALL CODE
READERS!

MICRONIC RACK READER DR710

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



INFORMATION MARKING SYSTEMS

For laser-etching tubes with permanent markings

LASER MARKERS

THE LAMBDA8 MANUAL LASER MARKER

- Compatible with 0.30ml-15ml tubes
- 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 plastic 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
- Software can be used to laser various 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
- Settings can be changed to accommodate tubes from different brands



DID YOU KNOW...

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



TUBE LABELERS

SEMI-AUTOMATED TUBE LABELER

For eliminating the manual application of labels from your workflow

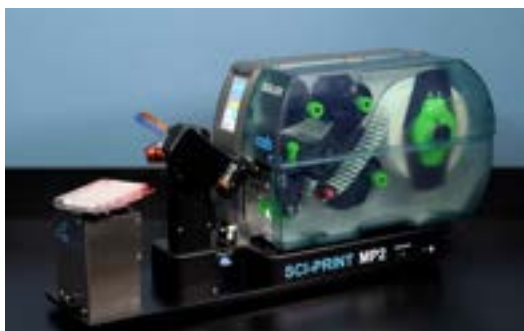
SCI-PRINT SOLO TUBE LABELER

- Compatible with 0.50ml to 50.00ml tubes (8mm to 29mm diameter)
- Use as stand-alone unit or integrate into larger automated systems 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 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)
- Includes 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

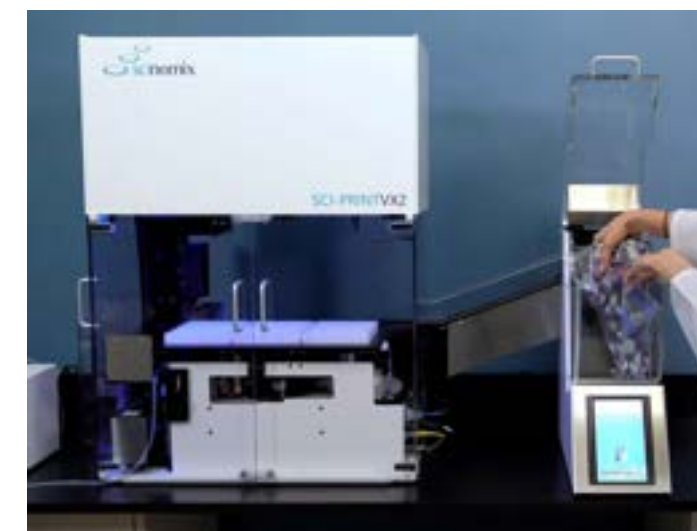


BULK TUBE FEEDER

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

SCINOMIX VX_i

- Pairs with Scinomix labelers
- Saves more time by eliminating hand loading of tubes into racks
- Uses optical technology to detect tube orientation for labeling and 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!



PRESERVE AND PROTECT YOUR 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.

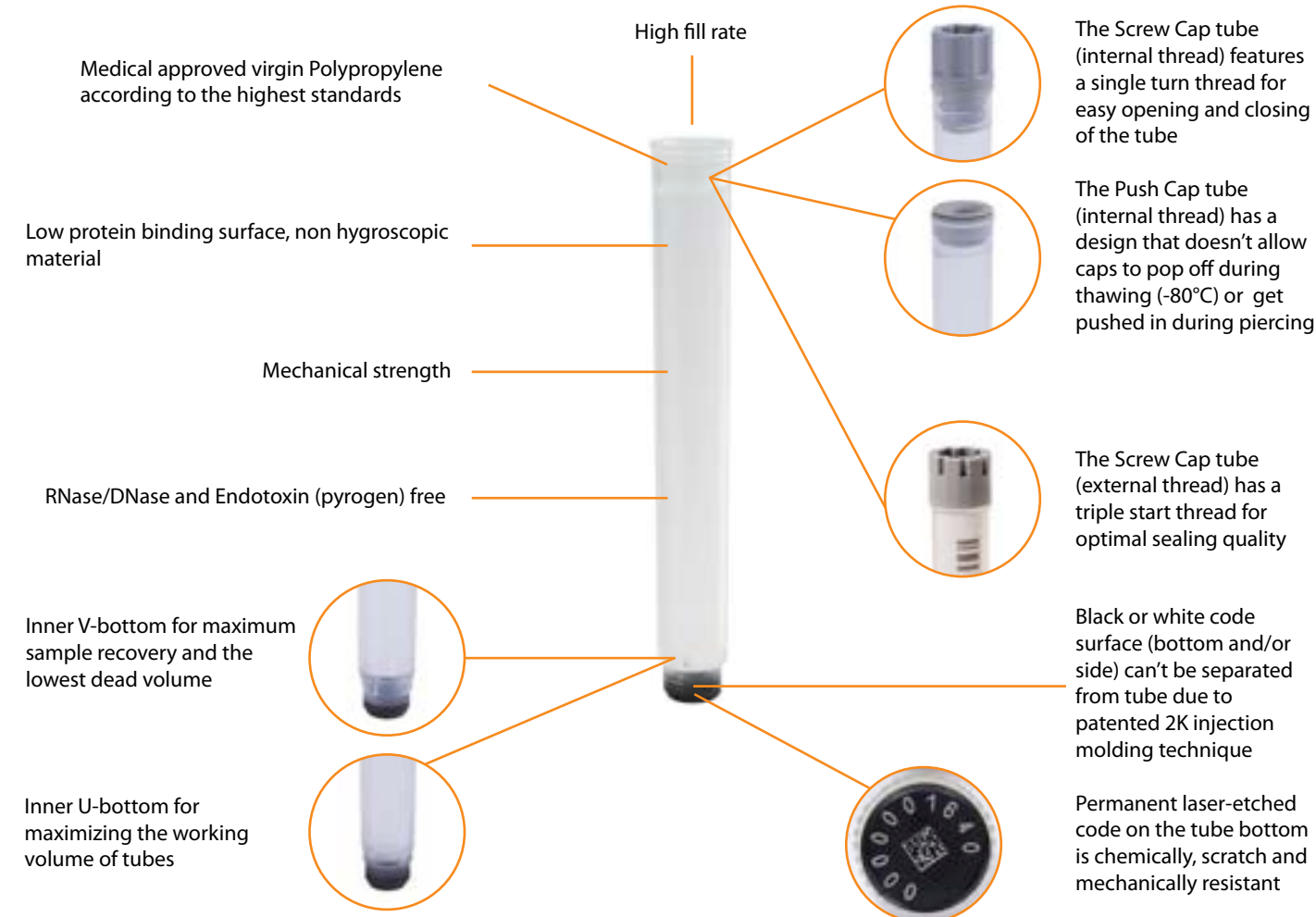
The Micronic range of ultra-low temperature (ULT) racks have an extremely strong design for cryogenic storage.

To process samples in the lab, we also offer (de)cappers for both push cap and screw cap tubes from brands like AFYS3G, Scinomix, and Micronic. For lower throughput labs, we offer manual or semi-automated cappers like the CS500 and CP400. For higher throughputs, we offer fully-automated cappers like the CS700, Sigma96, and Scinomix RapidCap2.

FEATURES OF MICRONIC TUBES

For optimal storage in ultra-low temperatures

STORAGE TUBES



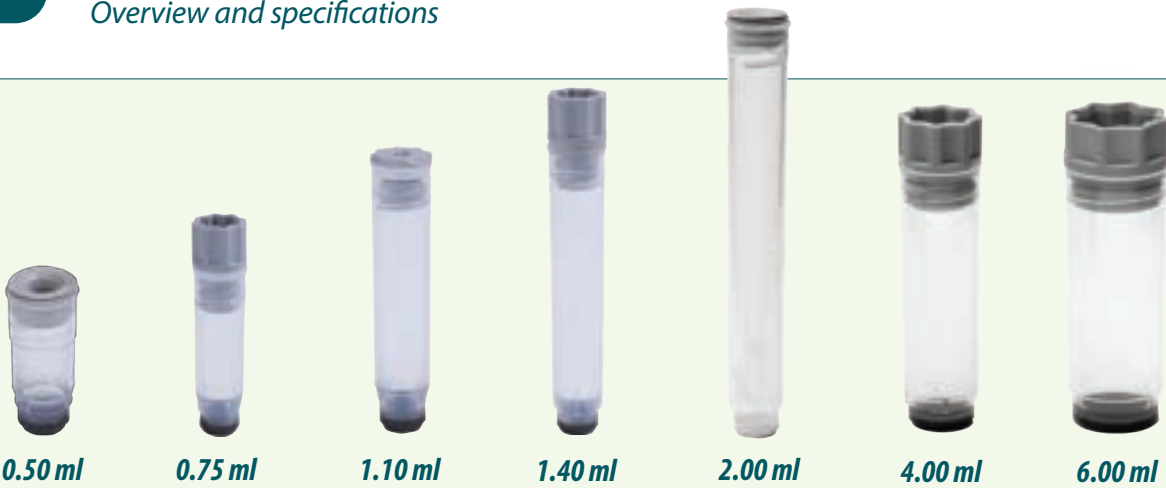
MICRONIC'S UNIQUE MANUFACTURING PROCESS

All Micronic sample storage tubes are manufactured to industry leading strict tolerances. Due to the unique 2K injection molding technique, the highly transparent tube and the code surface are molded to 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



Storage Rack	Loborack-96	Loborack-96	Roborack-96	Roborack-96	Roborack-96	Micronic 48-4	Micronic 24-4
Ultra Low Temperature Rack	Micronic 96-1/Q1	Micronic 96-2	Micronic 96-3	Micronic 96-4	Micronic 96-5		
Thread Type	Internal	Internal	Internal	Internal	Internal	Internal	Internal
Tube Type	Screw Cap tube	Screw Cap tube	Screw Cap tube	Screw Cap tube	Screw Cap tube	Screw Cap tube	Screw Cap tube
Inner Tube Shape	V-bottom	V-bottom	V-bottom	V- or U-bottom	U-bottom	Flat-bottom	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	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

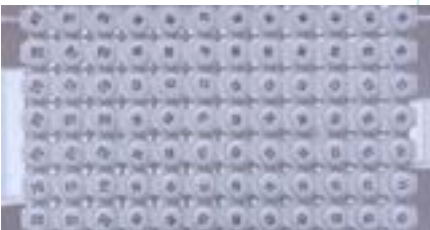
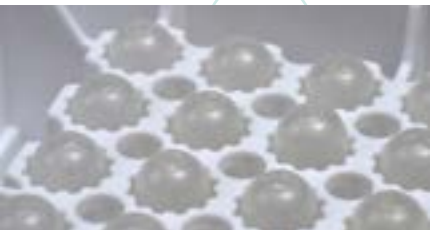
* If more sample volume is used in a tube than the specified working volume, possible deformation of the tube may occur. ** Also applicable for the Low Profile Screw Cap.
*** Temperature range of the material of tubes, caps and racks is approved from -80°C to +100°C. In practice tubes are used in lower 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.

EXTERNAL THREAD TUBES
Overview and specifications

STORAGE TUBES



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	External	External	External	External	External	External	External	External	External	External
Tube Type	Screw Cap	Screw Cap	Screw Cap	Screw Cap	Screw Cap	Screw Cap	Screw Cap	Screw Cap	Screw Cap	Screw Cap
Inner Tube Shape	V-bottom	V-bottom	V-bottom	V-bottom	Flat Bottom	V-Bottom	V-bottom	V-bottom	Flat Bottom	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	-80°C***	VP LN2	VP LN2
Availability	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack



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

4 UNIQUE CODING CONCEPTS!

	0.75 ml	1.40 ml	1.50 ml	2.00 ml	3.00 ml	3.00 ml	6.00 ml
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 sealing internally-threaded screw cap tubes for ultra-low temperature storage

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 temperature range: vapor phase LN2 to +140°C



Also Available: the CS100 Screw Cap Recapper from Micronic for manually decapping individual screw cap tubes.

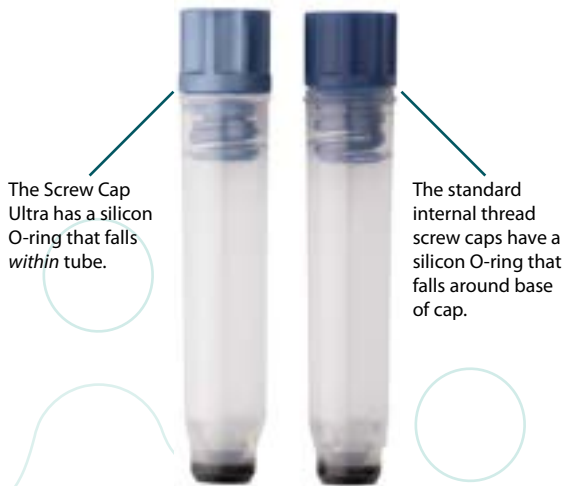
LOW PROFILE SCREW CAPS

- 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 temperature range: vapor phase LN2 to +100°C



SCREW CAP ULTRA

- Made from polypropylene
- Silicon O-ring falls in tube, sealing it 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 temperature range: vapor phase LN2 to +100°C



The Screw Cap Ultra has a silicon O-ring that falls within 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 most optimal 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 line of 96-well format tubes from Micronic: 0.30ml, 0.40ml, 0.75ml, 0.80ml, 1.10ml, 1.40ml, 2.00ml
- Compatible with the line of 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 to ensure 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 for 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 where tubes are sealed together; Capband-8 or Capband-12 comes in mat format with perforated 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)
- Economical solution for storage at 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

TPE Capcluster-96 Grey



TPE Capmat-96 Grey



TPE Capband-8

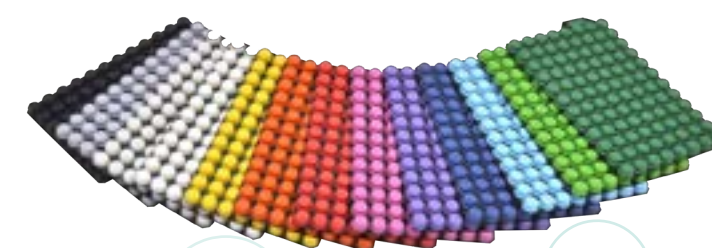


The CP620 TPE Decapper from Micronic



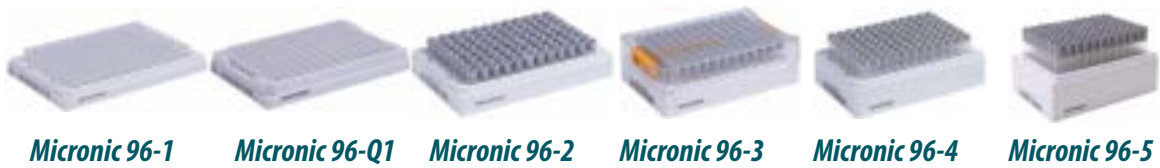
(DE)CAPPING
EQUIPMENT
AVAILABLE!

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	++/+	++/+	++/+	++/+	++/+	++/+

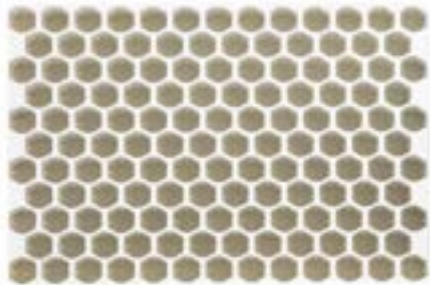


	Micronic 48-1	Micronic 48-2	Micronic 48-3	Micronic 48-4	Micronic 24-1	Micronic 24-2	Micronic 24-4
Rack Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Rack Capacity	48 tubes	48 tubes	48 tubes	48 tubes	24 tubes	24 tubes	24 tubes
Compatible Tubes	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 (int.) 49.0mm (ext.)	17.0mm (1.50ml) 24.0mm (3.00ml)	31.2mm	44.0mm (int.) 49.0mm (ext.)
Rack Height (Low Cover)	23.8mm	N/A	N/A	N/A	23.8mm	N/A	N/A
Rack Height (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	++/+	++/+	++/+	++/+	++/+	++/+	++/+

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 sample 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



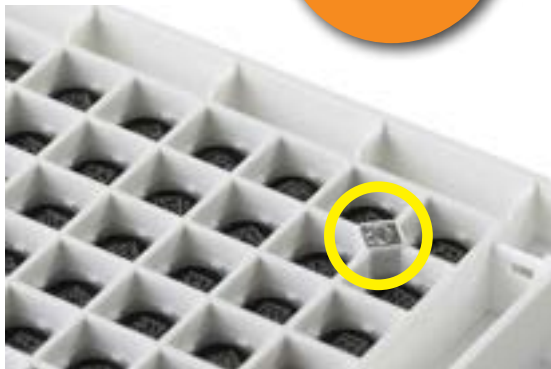
MICRONIC 96-DM RACK

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!



Interested in a free sample?

Contact us today with your request. A Technical Sales Representative will respond within 24-48 hours.

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

- ✉ Email: info@nbsscientific.co.uk
- 🌐 Web: www.nbsscientific.co.uk
- ☎ Phone: 01223 603778

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

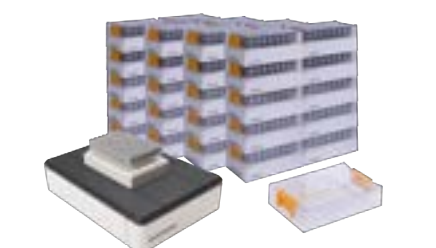


Standard Starter Pack

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

What's included?

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



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

Just need tubes?

Our tube trial packs include 1 unit of preracked tubes and 1 unit of caps. Available sizes include: 0.30ml, 0.40ml, 0.50ml, 0.75ml, 0.80ml, 1.10ml, and 1.40ml tubes.

SCREW CAP RECAPPER CS100

For manually decapping individual screw cap tubes

(DE)CAPPERS



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 (de)capping an entire row of screw cap tubes



FOR (DE)
CAPPING
SCREW CAP
TUBES!



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
- Can be paired with Micronic Docking Station
- Includes 1-year warranty

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

(DE)CAPPERS

SCREW CAP RECAPPER CS700

For capping and decapping 96-well, 48-well, and 24-well format 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



EASILY
INTEGRATE
WITH OTHER
EQUIPMENT!

SCINOMIX RAPIDCAP₂

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

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 color which might represent specific sample 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



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



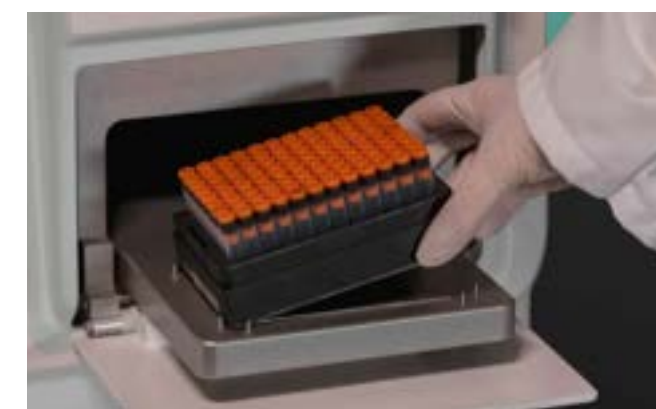
SIGMA96 SCREW CAP RECAPPER

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

(DE)CAPPERS

FEATURES AND BENEFITS

- Caps and decaps full rack of tubes in a single action
- Cycle time: 30 seconds
- Models available for 24-well (Sigma24) and 48-well (Sigma48) format screw cap tubes
- Compatible with screw cap tubes from a variety of 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.co.uk
- ✓ Web: www.nbsscientific.co.uk
- ✓ Phone: 01223 603778

(DE)CAPPERS

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

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 (minimum 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
- Operates as stand-alone unit or integrated into a fully-automated environment
- Simple and safe operation; no adapters required

VITL HEAT SEALING EQUIPMENT

For sealing microplates and PCR plates

HEAT SEALERS

VARIABLE TEMPERATURE SEALER

- Stable heat sealing performance ensures reliable one-time, hermetic sealing of multi-well microplates
- Compatible with 96-, 384-, and 1536-well microplates and deep well PCR plates
- Prevents sample loss through evaporation and cross contamination between wells
- Audible alarm indicates sealing completion and prevents overheating
- Adapters available for most plates
- Sealing temperature range: 125-200°C
- Sealing time range: 1-9 seconds in 0.5 second increments
- Warm up time (up to 170°C): < 10 minutes
- Heat sealing foils and films available



PREVENT
SAMPLE LOSS
IN THE LAB!

MICROTS MANUAL HEAT SEALER

- Fixed temperature manual heat sealer
- Ideal for sealing small quantities of plates
- Protect samples and prevent evaporation & contamination
- Sealing temperature: fixed temperature at 170°C +/- 2°C
- Warm up time: < 10 minutes
- Requires at least 1 adapter plate (sold separately)
- Heat sealing foils and films available



Interested in a free demo?

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- ☑ Web: www.nbsscientific.co.uk
- ☑ Phone: 01223 603778

Preventative maintenance plans are available to keep your equipment in excellent condition



By investing in a preventative maintenance plan, you can make sure your laboratory 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 at info@nbsscscientific.co.uk 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.

CORPORATE SOCIAL RESPONSIBILITY

Our efforts to promote a more sustainable future

At NBS Scientific, we try our best to promote a better, 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



- o Communicate via email & only print forms and papers when absolutely necessary
- o Switch off all lights when not in use
- o 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

OUR BRANDS

At NBS Scientific, we offer products in 7 main categories: sample collection, liquid handling, sample preparation, cell cultivation, sample analysis, sample management, and sample storage.

[2FYS]3G

GenTegra

PFEIFFER



MICRONIC
CONSTRUCTION EQUIPMENT AND SUPPLY



CAPP



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.

