



innovative lab solutions

collect - process - store - trace - automate your samples

ABOUT NBS SCIENTIFIC

Last year, Nova Biostorage Plus changed its name to NBS Scientific.



We deliver the resources you need to discover new insights in the lab—insights that could change the landscape of public health, wellness, and safety around the globe. When you're equipped with our innovative sample collection, sample storage, sample tracking, liquid handling, and laboratory automation products, you can improve and optimize your laboratory workflow to achieve consistently accurate research results more efficiently.

Beyond our physical resources, we also strive to help you identify and solve everyday challenges in the lab. By taking the time to learn more about your workflow, budget, and specific research application, we work hard to match you with the laboratory solutions that best meet your research needs.

When you choose to work with NBS Scientific—a global network of companies with over 10 years of experience in the life science industry—you're choosing a trusted partner that understands the scope and significance of your research. That's why we're committed to stocking your lab with the highest quality products and providing you with the best possible service every day of the week.

Whether you're part of a startup searching for its first case of tubes or a well-established lab looking for alternative sample storage, liquid handling, or laboratory automation products, we're here to help. That's our promise to you.

OUR VALUES

The four fundamental ideas that drive our company.

INNOVATION



We are constantly exploring new markets and trends to supply the most innovative products in the industry.

CREATIVITY



When customers ask us questions, we think creatively to help them solve unique problems in the lab.

QUALITY



We provide high-quality products and services that are produced under the strictest quality standards.

SUSTAINABILITY



Our corporate social responsibility program emphasizes sustainable practices and donations to charitable causes.

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our brands

AFYS3G
 Basque Engineering
 GenTegra
 HTI bio-X
 Micronic
 Norgen Biotek
 Ritter Medical
 Scinomix
 XQ Instruments

we deliver
you discover

sample collection



brands
GenTegra
NORGEN
BIOTECH CORP.

RELIABLE KITS FOR SAMPLE COLLECTION AND ISOLATION

At NBS Scientific, we offer innovative ways to collect, preserve, and isolate samples at ambient temperatures. With our sample collection and isolation kits, you can quickly and easily collect, preserve, and isolate RNA and DNA from different types of samples including blood, stool, saliva, urine, plasma, serum, and soil.

SALIVA DNA COLLECTION KIT

A user-friendly, all-in-one way to collect and preserve saliva DNA.

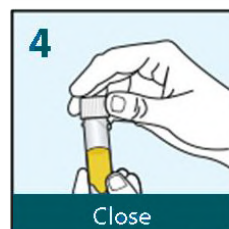
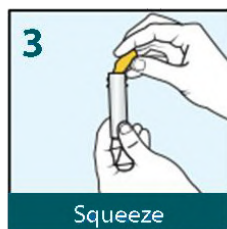
FEATURES AND BENEFITS

- Non-invasive sample collection
- Compatible with most DNA isolation kits
- High DNA yield and integrity
- Saliva DNA stable for over 75 months when sealed and stored at room temperature
- DNA preservative is an aqueous buffer designed for rapid cellular lysis & subsequent preservation of DNA from fresh specimens
- Preservative prevents growth of bacteria & inactivates viruses, allowing samples to be handled & shipped safely



COLLECTION KITS

SALIVA DNA DONOR PROCEDURE



A FAST & EASY WAY TO COLLECT SAMPLES!

SALIVA RNA COLLECTION DEVICE

A simple, non-invasive way to collect and preserve saliva RNA.

FEATURES AND BENEFITS

- Contents of kit include saliva collection funnel, collection tube, tube cap, and RNA preservative
- Shipping accessories can be purchased separately
- Compatible with most RNA isolation methods
- RNA suitable for sensitive downstream applications like RT-PCR, RT-qPCR, and microarray
- Preserved RNA stable for up to 2 months at room temperature
- Donor procedure same as saliva DNA collection

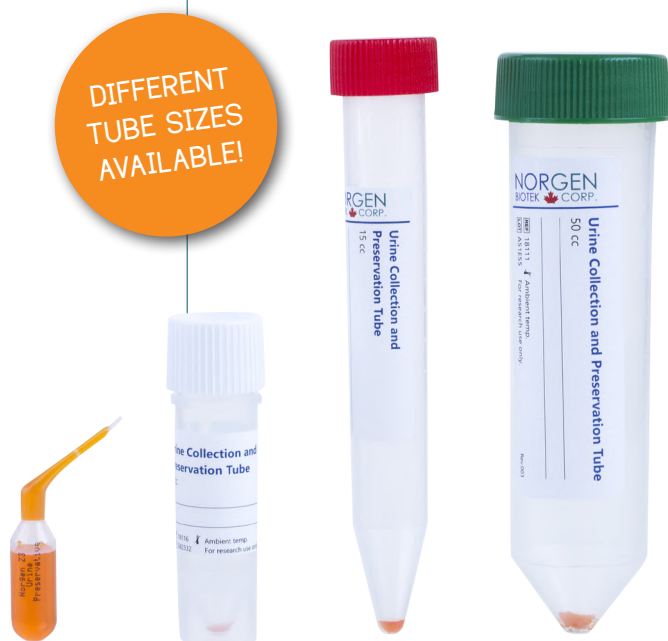


COLLECTION KITS

URINE COLLECTION & PRESERVATION TUBES

A complete way to collect, preserve, and transport urine samples at ambient temperatures.

DIFFERENT
TUBE SIZES
AVAILABLE!



FEATURES AND BENEFITS

- Available in the following sizes: 5cc, 15cc, 50cc, and single dose
- Preserves urine samples for up to 2 years
- Preserves cell-free nucleic acids and proteins for disease monitoring
- Long preservation time enables longitudinal studies and treatment monitoring
- Samples remain stable during extreme temperature fluctuations
- Tubes prevent freeze-thaw damage to nucleic acids and proteins
- Urine samples are well-suited for applications like PCR/qPCR, epigenetics, and genotyping

STOOL COLLECTION & PRESERVATION SYSTEM

A complete way to collect and preserve nucleic acids from stool samples.



FEATURES AND BENEFITS

- Preserves DNA at ambient temperatures for 2 years and RNA at ambient temperatures for 7 days
- Preserves microbiota profiles for unbiased, reproducible results
- Preservative provides sample homogeneity, eliminating sample variability
- Isolates nucleic acids for any application
- Eliminates odor and renders samples safe and non-infectious

SALIVA DNA ISOLATION KIT

For the rapid purification of high-quality DNA from preserved and fresh saliva samples.

FEATURES AND BENEFITS

- Fast & easy processing; rapid spin-column format lets researchers process 10 samples in 30 minutes
- Compatible with Norgen's collection and preservation products
- Non-invasive, painless sample collection rather than using blood or tissue for downstream diagnostic applications



ISOLATION KITS

STOOL DNA ISOLATION KIT

For the rapid and simple purification of bacterial and host DNA from stool samples.

FEATURES AND BENEFITS

- Simultaneous isolation of both host & microbial DNA using single procedure
- Traces of humic acid removed using bead tubes & combination of chemical & physical homogenization & lysis
- Isolates high quality DNA without using phenol or chloroform
- Isolates total stool DNA in 30 minutes



URINE DNA ISOLATION KIT

For the rapid purification of cell-free circulating DNA from fresh, preserved, or frozen urine samples.

FEATURES AND BENEFITS

- Rapid spin-column format allows multiple samples from 250µL to 2ml to be processed in less than 20 minutes
- Cell-free circulating DNA present in input volumes of 250µL to 2ml are concentrated into final elution volumes of 50µL to 100µL
- Purified DNA can be used in downstream applications like PCR, qPCR, and NGS



ISOLATION KITS

BLOOD DNA ISOLATION KIT MINI

For the rapid preparation of high-quality DNA from whole blood.



FEATURES AND BENEFITS

- Rapid spin-column based chromatography method purifies DNA for downstream applications like real-time PCR & Southern Blot analysis
- Can be used to prepare genomic DNA from up to 200µL of whole blood
- Preparation time for single sample is less than 30 minutes

PLASMA/SERUM RNA/DNA PURIFICATION KIT

A reproducible way to sequentially isolate RNA & DNA from fresh or frozen plasma/serum samples.



FEATURES AND BENEFITS

- Can isolate circulating DNA from 10µL to 200µL of plasma/serum sample
- Can isolate all sizes of fragmented circulating RNA and exosomal RNA, including microRNA
- Cell-free circulating DNA present in input volumes of 10µL to 400µL are concentrated into final elution volumes of 10µL to 50µL
- Rapid spin-column format used to isolate & purify samples

SOIL TOTAL RNA PURIFICATION KIT

For the rapid preparation of inhibitor-free RNA from soil samples.



FEATURES AND BENEFITS

- Can be used on all soil samples, including samples with high levels of humic acid such as compost & manure
- Simple rapid spin-column procedure purifies RNA of all sizes, from large mRNA & ribosomal RNA to microRNA
- Does not require use of phenol or chloroform

GENTEGRA-RNA & GENTEGRA-DNA

Water soluble chemical matrices that protect RNA & DNA in the dry state better than freezing.

FEATURES AND BENEFITS

- Near perfect protection at extreme temperatures (-80°C to +72°C for RNA and -80°C to +56°C for DNA) likely encountered when shipping samples
- Independent studies show GenTegra-RNA & GenTegra-DNA provide better protection than shipping samples on dry ice
- Protects RNA & DNA long-term better than storage at -20°C or -80°C, saving freezer space
- Available in screw cap tube packages or 96-well microplate/tube rack formats that support automation



STABILITY REAGENTS

GENSOLVE™ DNA COMPLETE KIT

Extract and purify high-quality DNA from dried blood spots (DBS).

STABILIZE
& PROTECT
SAMPLES!

FEATURES AND BENEFITS

- Includes superior column-based purification to yield best and most DNA possible from DBS on any collection card
- Combination of extraction and purification of DBS designed to provide best results when working with DBS as the sample origin
- Quality DNA can be recovered at higher yield from treated paper (GenSaver™ or FTA®) or plain paper (GenCollect and Guthrie cards)
- If purified DNA is combined with GenTegra-DNA and dried, it's stable and protected for decades of storage at room temperature



DID YOU KNOW...

GenTegra also offers GenSaver™ collection cards for collecting dried blood spot samples in the field. The collection cards have the same Active Chemical Protection provided by GenTegra-DNA, which means they can protect DNA from elevated temperatures and oxidative damage while in storage.



liquid handling



brands
ritter
MEDICAL

LABORATORY CONSUMABLES FOR HANDLING LIQUID SAMPLES

Ritter Medical manufactures laboratory consumables like robotic pipette tips to help researchers in the life science industry handle liquid samples in the quickest and most efficient way possible. With Ritter's wide range of disposable plasticware, even the most customized automated workflows can be accommodated.

Ritter Medical is a family owned company that has more than 50 years of experience producing high-quality, plastic laboratory and medical consumables. Their facilities are certified according to the ISO DIN 9001 and DIN EN ISO 13485 standards.

ROBOTIC PIPETTE TIPS

For automatically dispensing small and precise samples with a liquid handling system.

FEATURES AND BENEFITS

- Sizes from 10µl to 1300µl
- Available in blister packs of 5 trays, single tray or rack of 96 tips, or tip box
- Ritter blackKnight tips have 50% wider opening for more viscous samples
- Compatible with Tecan, Qiagen, Olympus, Hamilton, Dynex liquid handling systems
- Produced in clean room conditions; DNase, RNase, ATP, and pyrogen free
- Used for applications like clinical diagnostics, drug discovery, molecular biology, ADME Tox, and proteomics analysis



PIPETTE TIPS

STANDARD RITTER RITIPS®

For manually dispensing small and precise samples with a pipette.

- Sizes from 0.05ml to 50.00ml, even in-between sizes like 1.25ml and 12.50ml
- Uses direct displacement method, so works well with volatile liquids
- For sensitive applications like analysis of bodily fluids
- Available as a bioclean® grade (individually sealed & sterilized packs)
- Tips individually tested to guarantee non-leakage, documented in lot-specific records
- Compatible with pipettes like the Ripette Pro®, Multipette® 4780, StepMate, RepeatOne, and other brands



MANAGE
SAMPLES
QUICKLY &
PRECISELY!

we deliver
you discover

sample storage



brands

MICRONIC
INNOVATION IN SAMPLE STORAGE

ritter
MEDICAL

SOLUTIONS FOR EVERY LAB

Micronic manufactures innovative sample storage and preservation products—like sample storage tubes, caps, and racks—for the life science industry, with a focus on university laboratories, hospitals, agricultural facilities, government institutions, and biotech, food, chemical, and pharmaceutical companies.








Whether you need to store your samples in the highest purity polypropylene tubes, categorize your samples by cap color, or store your samples in laser-etched 1D barcoded racks, Micronic has a solution to help you get the job done.

In addition to Micronic's sample storage products, we also offer a range of deep well plates from Ritter Medical.

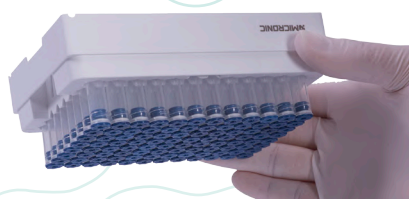
INTERNAL THREAD TUBES

Overview and specifications.

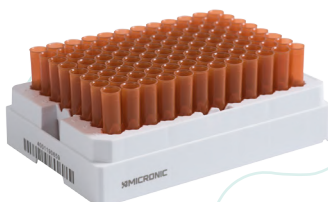
STORAGE TUBES

							
	0.50 ml	0.75 ml	1.10 ml	1.40 ml	2.00 ml	4.00 ml	6.00 ml
Storage Rack	Loborack-96 Micronic 96-1 Micronic 96-Q1	Loborack-96 Micronic 96-2	Roborack-96 Micronic 96-3	Roborack-96 Comorack-96 Micronic 96-4	Roborack-96 Micronic 96-5	Micronic 48-4	Micronic 24-4
Inner Tube Shape	V-bottom	V-bottom	V-bottom	V- or U-bottom	U-bottom	Flat bottom	Flat bottom
Working Volume with Push Cap (PC)	0.30 ml	0.58 ml	0.90 ml	1.15 or 1.20 ml	1.58 ml	N/A	N/A
Working Volume with Screw Cap (SC)	0.21 ml	0.48 ml	0.80 ml	1.04 or 1.10 ml	1.49 ml	2.70 ml	4.80 ml
2D 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	9.0 mm	9.0 mm	9.0 mm	9.0 mm	9.0 mm	13.0 mm	16.3 mm
Tube Height	18.5 mm	26.0 mm	36.5 mm	44.0 mm	59.0 mm	44.0 mm	43.4 mm
Tube Height with PC	19.5 mm	27.0 mm	37.5 mm	45.0 mm	60.0 mm	N/A	N/A
Tube Height with SC	26.0 mm	33.5 mm	44.0 mm	51.5 mm	66.5 mm	51.0 mm	51.4 mm
Twist-lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Snap Tube Option	Yes	Yes	Yes	Yes	Yes	No	No
Minimum Storage Temperature	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	-80°C* (Use rack with cover)	Vapor Phase LN2	Vapor Phase LN2

SNAP TUBES



AMBER TUBES



TUBESTRIP-8












TUBES
FOR ANY
RESEARCH
PROJECT!

STORAGE TUBES

EXTERNAL THREAD TUBES

Overview and specifications.

									
	0.30 ml	0.40 ml	0.75 ml	0.80 ml	1.00 ml	1.40 ml	2.00 ml	3.50 ml	4.00 ml
Storage Rack	Micronic 96-1	Micronic 96-1	Micronic 96-2	Micronic 96-3	Micronic 48-1	Micronic 96-4	Micronic 96-5	Micronic 24-2	Micronic 48-4
Inner Tube Shape	V- or Vr-bottom	V-bottom	V-bottom	V-bottom	Flat Bottom	V-Bottom	V-bottom	Flat Bottom	Flat Bottom
Working Volume with Screw Cap	0.30 ml or 0.22 ml	0.40 ml	0.60 ml	0.75 ml	0.85 ml	1.11 ml	1.55 ml	3.35 ml	3.40 ml
2D Coded	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Non-Coded	No	No	Yes	No	No	Yes	No	No	No
Outer Diameter	8.8 mm	8.8 mm	9.0 mm	8.8 mm	13.0 mm	9.0 mm	9.0 mm	16.3 mm	13.0 mm
Tube Height	16.4 mm	21.8 mm	30.0 mm	34.8 mm	16.0 mm	48.0 mm	63.0 mm	30.0 mm	48.0 mm
With Screw Cap	19.9 mm	25.3 mm	33.5 mm	38.3 mm	19.7 mm	51.5 mm	66.5 mm	33.5 mm	51.5 mm
Twist-lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Snap Tube	No	No	No	No	No	No	No	No	No
Minimum Storage Temp.	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	-80°C* (Use rack w/ cover)	Vapor Phase LN2	Vapor Phase LN2

SUPERIOR TUBE FEATURES

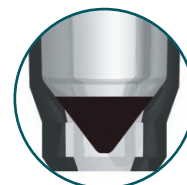
High-quality tubes in a wide range of cap and inner-tube bottom options.



The push cap tube (internal) is designed to prevent caps from popping off during thawing.



The screw cap tube (internal) has a single turn thread for easy opening and closing of tube.



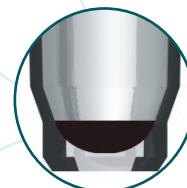
Inner V-bottom for maximum sample recovery and lowest dead volume.



The screw cap tube (external) has a triple-start thread for optimal seal quality.



Black code surface can't be separated from tube due to a unique injection molding technique.



Inner U-bottom for maximum working volume.

HYBRID TUBES

Externally threaded tubes with 4 unique coding concepts.

STORAGE TUBES

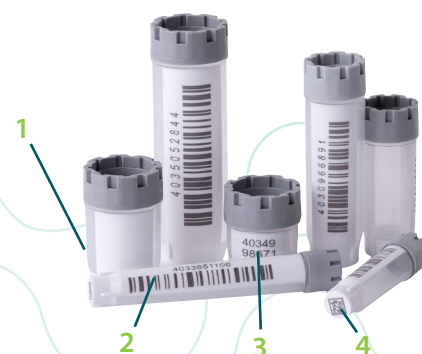
AVAILABLE
IN SMALL
PACKS!



	0.75 ml	1.40 ml	1.50 ml	2.00 ml	3.00 ml	3.00 ml	6.00 ml
Storage Rack	Micronic 96-2	Micronic 96-4	Micronic 24-1	Micronic 48-2	Micronic 48-3	Micronic 24-1	Micronic 24-4
Inner Tube Shape	U-bottom	U-bottom	Flat bottom	Flat bottom	Flat bottom	Flat bottom	Flat bottom
Working Volume (+21°C)	0.62 ml	1.20 ml	1.45 ml	1.95 ml	2.90 ml	2.45 ml	5.94 ml
2D coded	Yes	Yes	Yes	Yes	Yes	Yes	Yes
1D barcoded	Yes	Yes	No	Yes	Yes	No	Yes
Human readable	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Blank tube walls	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Capping Options	Screw Cap	Screw Cap	Screw Cap	Screw Cap	Screw Cap	Screw Cap	Screw Cap
Outer Diameter	8.8 mm	8.8 mm	16.3 mm	13.0 mm	13.0 mm	16.3 mm	16.3 mm
Tube Height	30.0 mm	48.0 mm	16.0 mm	30.0 mm	41.0 mm	23.0 mm	48.0 mm
Tube Height with SC	33.5 mm	51.5 mm	19.5 mm	33.5 mm	44.5 mm	26.5 mm	51.5 mm
Precapped	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Twist-lock	Yes	Yes	Yes	Yes	Yes	No	Yes
Min. Storage Temp.	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2
Availability	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack

FEATURES AND BENEFITS

With **4 unique codes**—a 1D barcode, 2D Data-Matrix code, human readable code, and blank surface for own ID—the Micronic hybrid tube guarantees the complete traceability of samples in the lab. Due to the two-component injection molding technique used during manufacturing, the white tube bottom and tube walls can never be separated from the tube. Overall, the Micronic hybrid tube eliminates the possibility of cross-contamination and ensures an optimal seal for long-term sample storage.



STORAGE CAPS

INTERNAL THREAD SCREW CAPS

Caps that securely seal internally threaded screw cap tubes for ultra-low temperature storage.



FEATURES AND BENEFITS

- 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, light green, green, & black
- Resistant to chemical solvents
- Storage temperatures ranging from Vapor phase LN2 to +140°C
- Screw cap Ultra available in 4 premium colors; optimally designed for automated & manual handling

EXTERNAL THREAD SCREW CAPS

Caps that minimize the chance of cross-contamination during sample preparation.



FEATURES AND BENEFITS

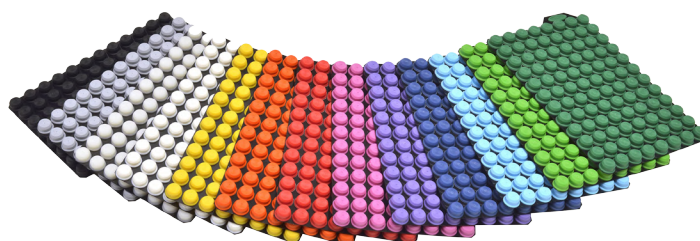
- Made from polyethylene with triple start thread for optimal sealing
- Available in 12 colors: grey, white, yellow, orange, red, pink, purple, blue, light blue, light green, green, black
- Transparent color available for 24 and 48-well format tubes
- Compatible with Micronic's externally threaded tubes in 96, 48, or 24-well format from 0.30ml to 6.00ml in size
- Resistant to chemical solvents
- Automation friendly

TPE CAPCLUSTER-96

Push caps that leave tubes individually capped.

FEATURES AND BENEFITS

- Made from thermo plastic elastomer
- Compatible with 0.50ml to 2.00ml 96-well format tubes with internal thread
- Leaves tubes individually capped
- Can be pierced repeatedly without losing seal integrity
- Available in 12 colors + natural (see photo to right)
- Can be stored in temperatures from -80°C to +100°C (without retaining foil)
- Can be available with split septum to pierce with a pipette tip



STORAGE CAPS

CAN BE
PRECAPPED
ON MICRONIC
TUBES!

TPE CAPMAT-96

Push caps that seal 96 tubes together with a fixed foil.

FEATURES AND BENEFITS

- Made from thermo plastic elastomer
- Compatible with 0.50ml to 2.00ml 96-well format internal thread tubes
- No foil to remove; tubes kept together once capped
- Available in 8 colors: yellow, blue, light green, grey, pink, red, black, and natural
- Can be stored in temperatures from -80°C to +100°C
- Can be purchased as capbands in strips of 8 or 12 caps



DEEP WELL
PLATES

MAGNETIC RIPLATE®

For cleaning, mixing, and centrifuging samples quickly and efficiently.



PREPARE
SAMPLES FOR
DOWNSTREAM
RESEARCH!

RIPLATE® MAGNETIC

- Developed specifically with magnetic separation technology to extract proteins & DNA from samples with magnetic force
- Magnetic comb used in conjunction with a separate deep well plate
- Working volume of 20µl-1000µl & total volume of 0.20ml-2.00ml per well
- Raised rims reduce risk of cross-contamination
- Newly developed cylindrical wells enable good bioturbation of samples

STANDARD RIPLATES®

Deep well and micro well plates for different sample volumes.



RIPLATE® 96

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



RIPLATE® 384

- Newly designed square wells provide more space for each sample
- Available in clear, transparent, white, and black
- Special 3-axis soil geometry converts square wells into V-shape; possible to recover microscopic sample volumes
- Minimizes risk of cross-contamination and can be sealed with self-adhesive foils

RIPLATE® ROUND WELLS

The first deep well plate with 96 continuous shared wells.

DEEP WELL PLATES

FEATURES AND BENEFITS

- Raised wells reduce risk of cross-contamination
- For applications with extreme temperatures like freezing or defrosting in a microwave
- Ideal for sensitive diagnostic applications due to high chemical resistance
- Alphanumeric coding on each plate
- Heat-seal or seal with adhesive films

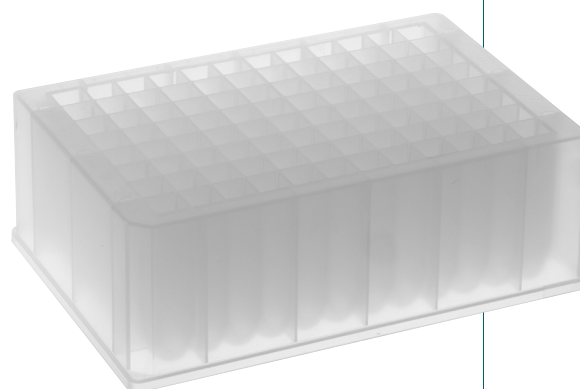


RIPLATE® SQUARE WELLS

Designed to maximize sample storage capacity.

FEATURES AND BENEFITS

- Made from high-quality polypropylene
- Plate wells designed to ensure the 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

Designed to help researchers save up to 50% of their storage space.

FEATURES AND BENEFITS

- 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
- Ridges around wells minimize contamination
- Manufactured in 0.50ml and 1.00ml well sizes; working volume of 20µl-500µl & 50µl-1000µl



STORAGE RACKS

MICRONIC ULT STORAGE RACKS

For sample storage at ultra-low temperatures.

96-well ULT rack



48-well ULT rack



24-well ULT rack



Tube Compatibility	Compatible with tubes from 0.30 ml to 2.00 ml in size	Compatible with tubes from 1.00 ml to 4.00 ml in size	Compatible with tubes from 1.50 ml to 6.00 ml in size
Rack Format	12 rows of 8 tubes (96 tubes total)	8 rows of 6 tubes (48 tubes total)	6 rows of 4 tubes (24 tubes total)
Material	Polycarbonate	Polycarbonate	Polycarbonate
Dimensions	5.03 in x 3.37 in	5.03 in x 3.37 in	5.03 in x 3.37 in
Resistant to Chemical Solvents	Yes	Yes	Yes
Minimum Storage Temperature	Vapor Phase LN2 to +140°C	Vapor Phase LN2 to +140°C	Vapor Phase LN2 to +140°C

LOBORACKS, ROBORACKS, COMORACKS

Designed specifically to store and process samples.

USE WITH
MICRONIC
FULL RACK
READERS!

LoboRack-96



RoboRack-96



ComoRack-96



Tube Compatibility	Compatible with tubes from 0.50 ml to 2.00 ml in size	Compatible with tubes from 0.50 ml to 2.00 ml in size	Compatible with tubes from 0.50 ml to 2.00 ml in size
Rack Format	12 rows of 8 tubes (96 tubes total)	12 rows of 8 tubes (96 tubes total)	12 rows of 8 tubes (96 tubes total)
Material	Polypropylene	Polypropylene	Polycarbonate
Dimensions	5.03 in x 3.37 in	5.03 in x 3.37 in	5.03 in x 3.37 in
Resistant to Chemical Solvents	Yes	Yes	Yes
Minimum Storage Temperature	Vapor Phase LN2 to +140°C	Vapor Phase LN2 to +140°C	Vapor Phase LN2 to +140°C

FREEZER RACKS

The optimal way to organize samples and maximize storage space.

FEATURES AND BENEFITS

- Helps organize samples and maximize use of freezer space
- Eliminates time searching for samples, keeping experiments on track
- Racks are custom-built and manufactured to fit unique labware dimensions and freezers
- Designed to fit any freezer type including upright, chest, or LN2 tank
- Built from durable stainless steel
- Locking rod and drawer racks available upon request
- Lifetime workmanship guarantee

CONTACT
US TODAY
FOR MORE
SIZES!



FREEZER RACKS

LIQUID NITROGEN FREEZERS

Conventional immersion liquid nitrogen storage with easy, unrestricted access to samples.

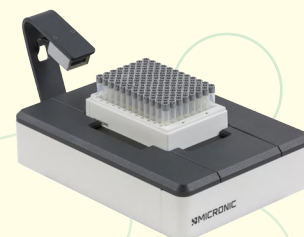
FEATURES AND BENEFITS

- Rust-free stainless steel vessel
- Castor mounted for easy mobility
- Advanced woven lid gasket design
- Counter balanced lockable lid
- Accommodates a range of labware
- Compatible with stainless steel freezer racks (above)



DID YOU KNOW...

With the Micronic DR505 and DR700 full rack readers, researchers can scan racks of tubes right after they're removed from the freezer. Micronic's full rack readers are built with an anti-frost system that minimizes the amount of condensation on the scanner surface, thus making it possible to read codes on frozen tubes.



STARTER PACKS

STARTER PACKS

For labs interested in getting started with 2D tubes and other automated products.

Micronic's starter packs are designed with you in mind. Whether you're a new lab searching for the perfect tubes and equipment or an advanced scientist looking for new ways to expedite your research, a starter pack will give you the opportunity to test new products without breaking your budget or interrupting your current workflow. All starter packs come with 2D tubes, caps, scanners, and manual or electric (de)cappers.



STARTER PACK BASIC

Includes 10 racks of tubes, caps, DT500, handheld wireless scanner, and manual decapping tools.



STARTER PACK STANDARD

Includes 10 racks of tubes, caps, DR500 code reader, and manual decapping tools.



STARTER PACK ADVANCED

Includes 40 racks of tubes, caps, DR505 code reader with side barcode reader.



STARTER PACK PREMIUM

Includes 40 racks of tubes, caps, DR505 code reader, screw cap or electric capper, and manual decapping tools.

sample traceability



RAPIDLY AND ACCURATELY IDENTIFY SAMPLES

Micronic's full rack scanners can read and decode an entire rack of 24, 48, or 96 tubes in less than five seconds. Built with the new Micronic Code Reader Software, Micronic's full rack scanners give reliable code readings and can be easily integrated into any laboratory sample database.

In addition to their full rack scanners, Micronic also offers smaller, single tube code readers that can scan individual tubes and 1D rack barcodes in just one second. All full rack and single tube scanners come with a 5-year warranty.

brands

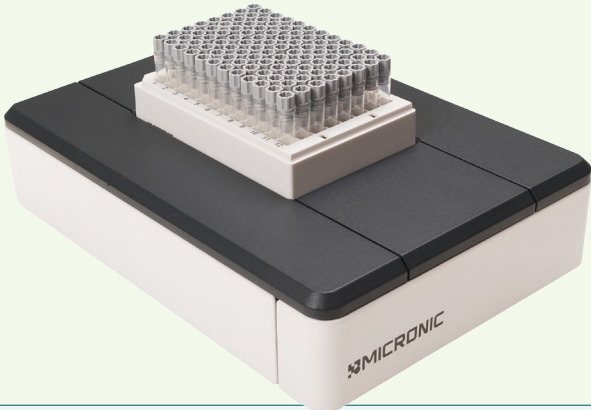
MICRONIC
INNOVATION IN SAMPLE STORAGE

FULL RACK
READERS

FULL RACK CODE READERS
For fast, accurate, and efficient sample identification.



Micronic DR500



Micronic DR505

FEATURES



Scan time: 5 seconds



Dimensions: 10.4 x 7.3 x 2.8 in



CIS Imaging Technology



Accommodates 96, 48, 24-format racks



N/A

Anti-frost system



Single tube reading

Single tube reading

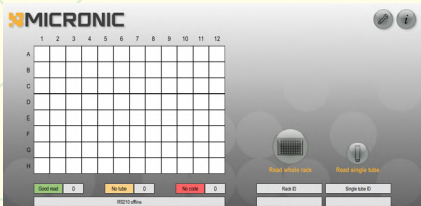


Optional 1D rack barcode reader

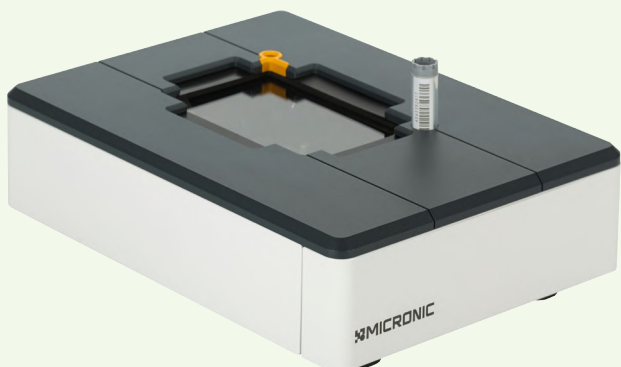
Optional 1D rack barcode reader

DID YOU KNOW...

Each Micronic scanner comes with the Micronic Code Reader Software that is compatible with all laboratory sample databases. This software features an automatic re-read function that makes sure all codes are deciphered quickly and downtime is reduced in automated workflows.



Micronic DR700



Micronic Side Barcode Reader



Scan time: 7 seconds	Scan time: 1 second
Dimensions: 11.7 x 7.1 x 2.6 in	Dimensions: 9.1 x 1.38 x 5.2 in
CCD Imaging Technology	CCD Imaging Technology
Accommodates 96, 48, 24-format racks	Works with 96, 48, 24-format racks
Anti-frost system	N/A
Single tube reading	N/A
Optional 1D rack barcode reader	Scans 1D rack barcodes

AVAILABLE
FOR DR500
AND DR700
SCANNERS!

DID YOU KNOW...

The Micronic DR505 and DR700 full rack scanners have anti-frost systems that can read tubes straight from the freezer. The anti-frost system minimizes the amount of condensation on the scanning surface, which allows the scanner to read codes on *all* tubes, even the ones that are frozen.



SINGLE TUBE READERS

SINGLE TUBE CODE READERS

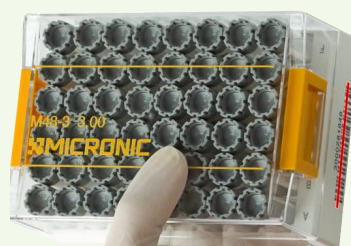
For fast, accurate, and efficient sample identification.

SCAN 1D &
2D CODES
ANYWHERE
IN THE LAB!

Micronic Tube Reader DT500



Micronic Tube Reader DT300



FEATURES



Scan time: < 1 second

Scan time: < 1 second



Dimensions: 2.8 x 2.7 x 4.7 in

Dimensions: 5.3 x 1.5 x 1.1 in



CIS imaging technology

CIS imaging technology



Accommodates 96, 48, 24-format tubes/racks

Accommodates 96, 48, 24-format tubes/racks



1D rack barcode reading

1D rack barcode reading



2D Data-Matrix code reading

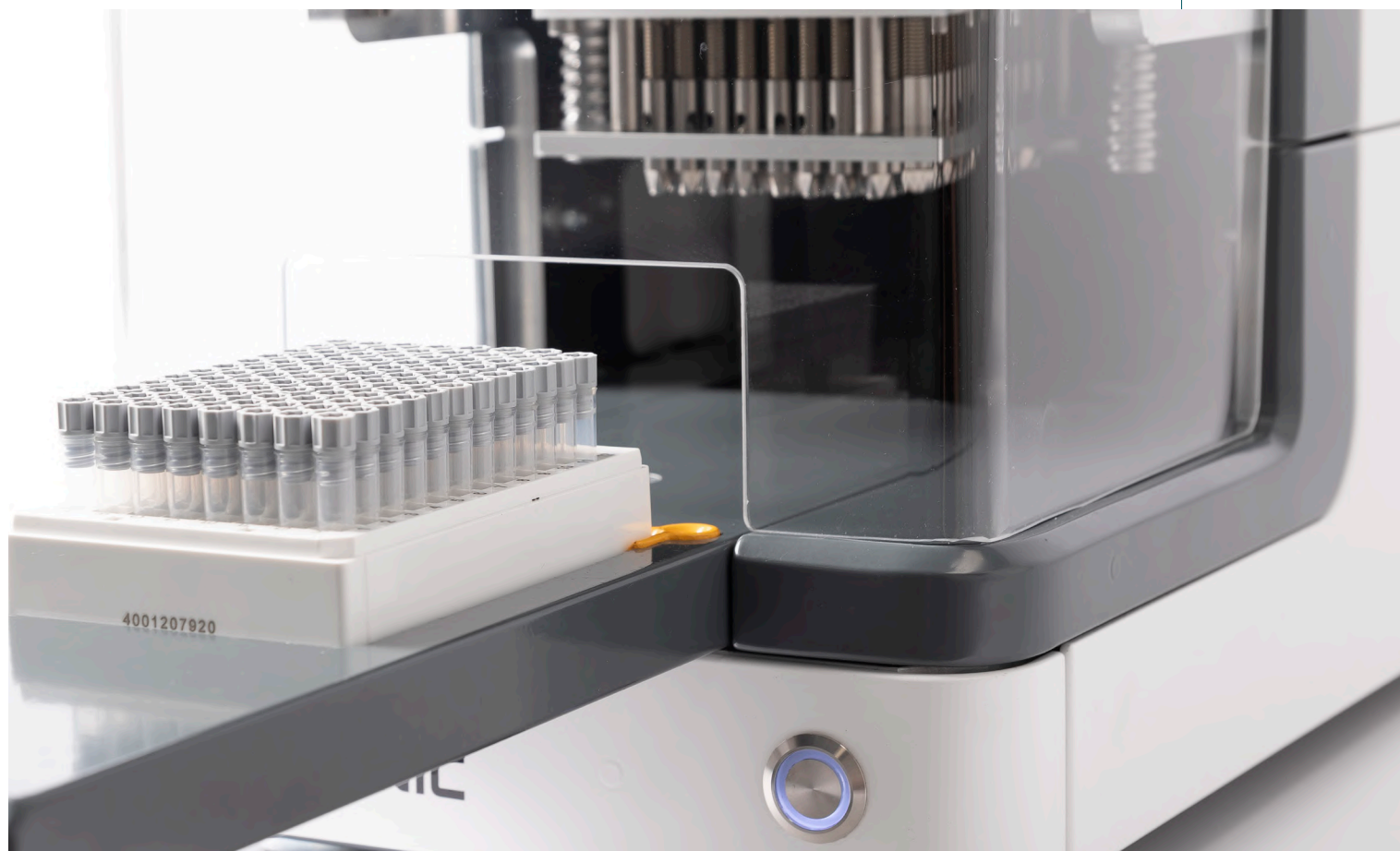
2D Data-Matrix code reading

DID YOU KNOW...

Micronic designs equipment to deliver outstanding performance. If a product is defective, Micronic will arrange to repair or replace the product during the warranty period. This period starts on the day Micronic invoices the original product and ends after **5 years** for code reading equipment and **1 year** for all other equipment.



laboratory automation



SYSTEMS DESIGNED TO OPTIMIZE YOUR WORKFLOW

At NBS Scientific, we provide top-of-the-line laboratory automation equipment engineered for various applications in the life science industry. Our high-quality portfolio of laboratory automation equipment includes (de)cappers, tube labeling systems, laser markers, frozen aliquotters, and tube processors. Every piece of equipment is engineered to identify samples accurately and handle them with care.

brands

ABYSS3G

B
basque
ENGINEERING SCIENCE

HTI

MICRONIC
INNOVATION IN SAMPLE STORAGE

scinomix

(DE)CAPPING EQUIPMENT

MICRONIC PUSH CAP CAPPER CP400

A manual, user-friendly way to cap 96 push cap tubes at once.



FEATURES AND BENEFITS

- Compact design and easy to use—no installation required
- Includes height adapter that matches customer's specifications
- Compatible with Micronic's TPE or EVA style capmats, capclusters, and capbands
- Minimizes cross-contamination
- Safe operation and even capping guaranteed
- Works on full and partially-full racks
- Maximum rack height: 48mm
- Dimensions: 10.3 x 7.28 x 16.46 in
- Weight: 15 lbs

MANUAL DECAPPING TOOLS

A manual, user-friendly way to decap one or more tubes.



CS100 RECAPPER
*(De)caps individual
screw cap tubes.*



MANUAL DECAPPER-1
*Removes a single
push cap.*



MANUAL DECAPPER-8
*Removes 8 push caps
at once. Available in
aluminum for frozen
samples.*

MICRONIC PUSH CAP CAPPER CP600

For capping racks of push cap tubes in 7 seconds.

(DE)CAPPING
EQUIPMENT

FEATURES AND BENEFITS

- Works on full and partially-full racks of tubes
- Caps an entire rack of 96 tubes in roughly 7 seconds (depending on tube height)
- Built with controlled pressure system for an even capping result
- CP600 works with tube sizes up to 1.40ml (48mm) & CP610 works with tube sizes up to 2.50ml (86mm)
- Compatible with complete range of Micronic 96-format internal thread tubes
- Operates without any buttons
- Cycle time: 7 seconds on average
- Dimensions: 12.20 x 8.27 x 12.60 in
- Weight: 31 lbs (CP600) or 35 lbs (CP610)
- Voltage: 115-230 V



MICRONIC PUSH CAP DECAPPER CP620

For decapping racks of push cap tubes in 8 seconds.

FEATURES AND BENEFITS

- Operates stand-alone or in a fully automated environment
- Simple and safe operation
- Decaps 96 tubes in 8 seconds
- Minimizes cross-contamination
- Compatible with complete range of Micronic 96-format internal thread tubes (up to 1.40ml)
- CE-approved and conform UL
- Cycle time: 10-15 seconds
- Dimensions: 21 x 10 x 14 in
- Weight: 55 lbs
- Voltage 115-230 V



(DE)CAP
FULL RACKS
OF TUBES
AT ONCE!

(DE)CAPPING
EQUIPMENT

MICRONIC SCREW CAP RECAPPER CS500

Semi-automatic device that caps, decaps, and recaps an entire row of tubes in 5 seconds.



FEATURES AND BENEFITS

- Large ejection handle discards caps easily
- Flexible design simplifies (de)capping process
- Models available for 96-, 48-, and 24-format screw cap tubes
- Ergonomic solution for left and right-handed users
- Small footprint (12 lbs)
- No battery charging required
- Compatible with Micronic standard and low profile screw caps as well as caps from other brands
- Minimizes contamination
- Tightens screw caps securely and uniformly

EXPEDITE
THE CAPPING
PROCESS IN
YOUR LAB!

MICRONIC SCREW CAP RECAPPER CS700

Automatic device that caps, decaps, and recaps an entire rack of tubes in 30 seconds.



FEATURES AND BENEFITS

- User-friendly touch screen
- Ethernet connection allows for various protocols
- Models available for 96-, 48-, and 24-format screw cap tubes
- Precise torque value for optimal sealing
- Quiet operation
- Compatible with Micronic tubes (up to 6.00ml) and tubes from other brands
- No adapters required
- Optional sensor cap detection
- Operates stand-alone or in a fully automated environment

CAPMATE PLUS

A consistently secure way to cap tubes and vials with screw caps.

(DE)CAPPING
EQUIPMENT

FEATURES AND BENEFITS

- Caps 20-30 tubes per minute
- Bowl feeder automatically moves caps into capping head
- Digital cap counter tracks number of capped tubes
- Automatic button sends tubes into unit, capping them
- Eliminates tedious and non-essential tasks from the lab
- Increases productivity and innovation
- Provides more time to focus on complicated scientific problems
- Reduces operator hand fatigue and prevents occupational hazards like carpal tunnel syndrome
- Small footprint



CAPMATE DUO

A consistently secure way to cap and decap tubes and vials with screw caps.

FEATURES AND BENEFITS

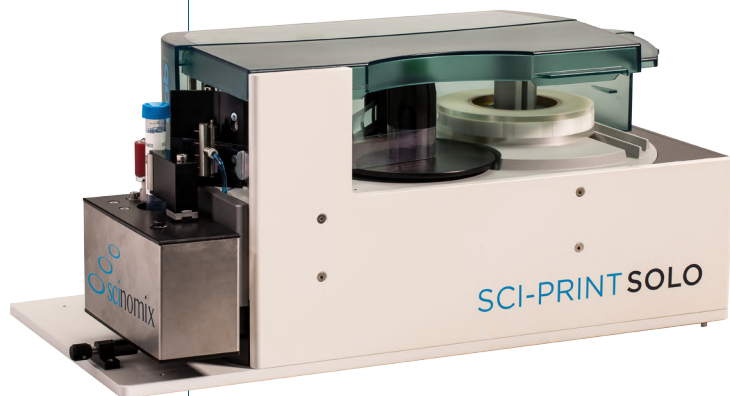
- (De)caps 20-30 tubes per minute
- Simple operation: place cap on tube, load tube into tube holder, push tube holder into unit, and remove tube once capped automatically
- Provides consistent torque that prevents tube leakages
- Expedites a monotonous part of the laboratory workflow, thus eliminating tedious tasks from the lab
- Ergonomic way to (de)cap tubes quickly and efficiently
- Bench-top system; takes up minimal space in the lab
- Noise level is less than 70 db at 1 meter
- Requires little to no maintenance



TUBE LABELERS

SCI-PRINT SOLO

A semi-automated tube and vial labeler that is compatible with a wide range of tube sizes.



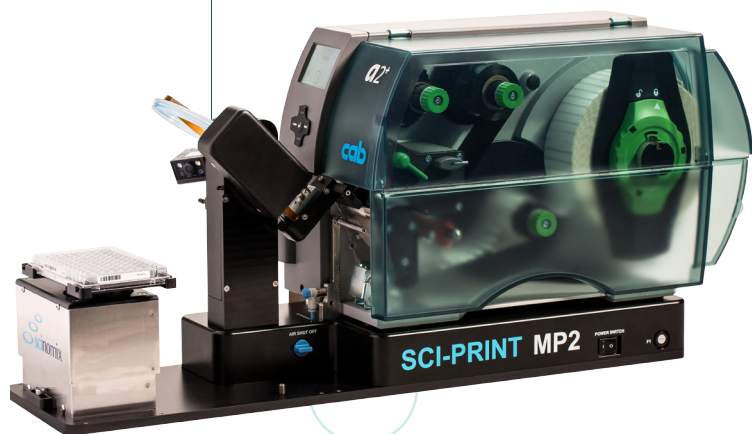
FEATURES AND BENEFITS

- Compatible with vials ranging in size from 0.50ml to 50ml (8mm to 29mm in diameter)
- Includes thermal transfer printer (300 or 600 dpi)
- Windows based software
- CE certified
- Consistently places labels on tubes
- Increases productivity in lab
- Eliminates human error that can occur from hand labeling tubes
- Easily integrates into third party systems
- User-friendly software

REDUCES
ERRORS
FROM HAND
LABELING!

SCI-PRINT MP2

A semi-automated label printer that prints and applies labels to a variety of microtiter plates.



FEATURES AND BENEFITS

- Rotating, height-adjusting platform provides flexibility to print on all sides and two vertical levels of plate and deep well blocks
- Versatile software allows system to be used as stand-alone device or integrated into automated plate handling systems
- Optional barcode scanner available
- Includes thermal transfer printer (600 dpi)
- Labels up to 4 sides of a plate
- Standard label size: 0.25 (H) x 2.00 (W) in
- Windows based software driver
- Consistently labels plates
- Prints range of standard barcodes including 1D and 2D

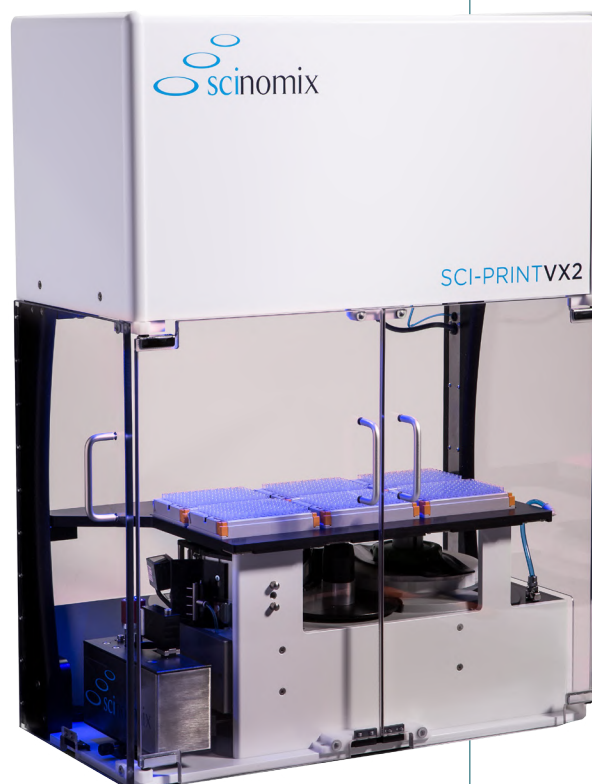
SCI-PRINT VX₂

A compact, fully automated tube labeling system.

TUBE
LABELERS

FEATURES AND BENEFITS

- Throughput of 425 tubes per hour
- 6-position work deck (accommodates up to 600 tubes)
- Thermal transfer printer
- Ability to handle honeycomb plates
- Compatible with Micronic 2D vials ranging from 0.50ml to 50ml in size
- Modules can be added to fill aqueous solutions, (de)cap screw cap tubes, read or validate 2D barcodes
- Increases productivity & efficiency in lab
- Consistently places labels on tubes
- Same system can handle multiple tube types
- Eliminates human error that occurs from hand labeling tubes
- Reduces repetitive injuries from hand labeling tubes

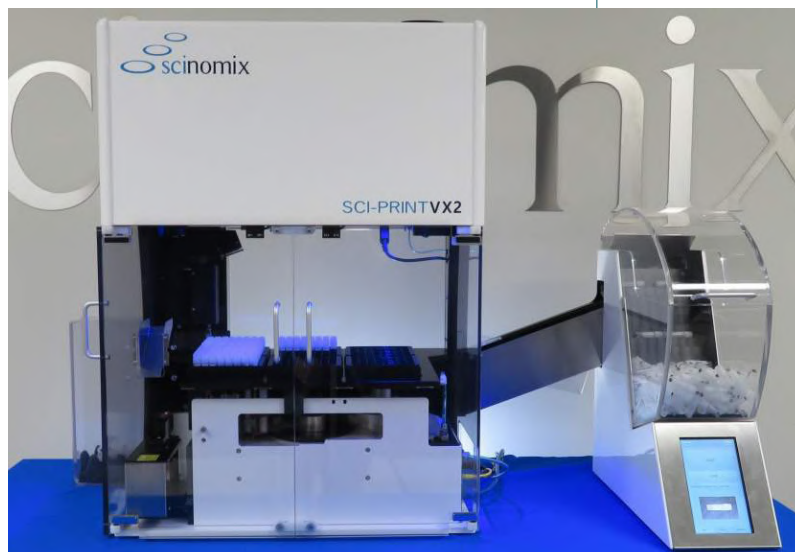


SCINOMIX VX_i

A bulk tube feeder designed to feed tubes into a Scinomix VX Series labeler.

FEATURES AND BENEFITS

- Adapts to wide range of tube types & sizes
- Handles tube diameters from 8mm to 28mm
- Handles internal & external threaded tubes as well as capped & uncapped tubes
- Optional hopper extension available
- With a camera, optical technology used to detect tube orientation to aid in the delivery for labeling and racking tubes
- User-friendly software accessibility via LCD screen allows for quick & easy access to settings



LASER MARKERS

INFORMATION MARKING SYSTEMS

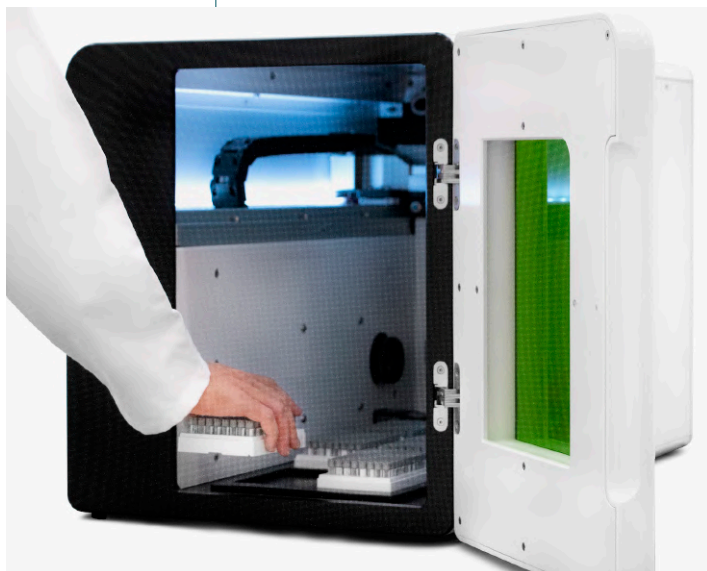
For laser-etching tubes with permanent markings.



THE LAMBDA8

A manual laser marking system.

- 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 etch any shape, logo, text, or sample ID onto tube surface
- Laser engraved markings can't be separated from plastic surface
- Includes user-friendly software that can be used to create & select custom labware markings



THE LAMBDA576

An automated laser marking system.

- Can automatically process up to 6 racks of storage tubes in ANSI/SLAS format
- No labels, stickers or ink used to mark tubes
- Any shape, code, or text is directly laser-engraved onto the tube surface
- Markings can't be separated from tube, ensuring absolute sample traceability
- Markings are resistant against chemicals, mechanical abrasion, and temperatures between -196°C and +100°C

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 (as opposed to laser-etched markings on transparent tube walls). Overall, the markings laser-etched onto hybrid tubes give researchers the best opportunity to trace samples both visually and automatically, ensuring maximum sample traceability.



CXT 353

A benchtop frozen sample aliquotter that maximizes the quality and utility of samples.

CXT 353 BENCHTOP FROZEN SAMPLE ALIQUOTTER

For aliquotting a wide range of sample types.

- Semi-automated benchtop instrument
- Compact design with user-friendly touch screen
- Compatible with wide range of vial types
- Aliquots frozen samples like tissue, feces, serum, plasma, whole blood, urine, and other biofluids
- Extracts multiple frozen aliquots from each sample
- Parent sample and frozen aliquots maintained from -80°C to -150°C via LN2 chilling
- Eliminates damaging freeze-thaw cycling
- Single-use, nuclease-free probes prevent sample-to-sample carryover and contamination
- Includes laser-targeting feature to core specific tissue sections
- Frozen sample aliquotting enables distribution of smaller sample volumes, extending use of critical samples like rare disease, late-stage disease, and pediatric samples
- Applications include bioanalysis, microbiome, molecular pathology, and biobanking

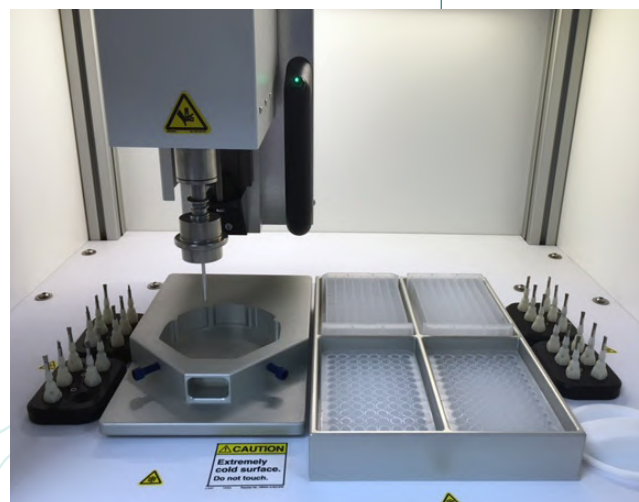


FROZEN ALIQUOTTERS

CXT 425 FROZEN ALIQUOTTER

For customers who need to deposit into 96-well plates.

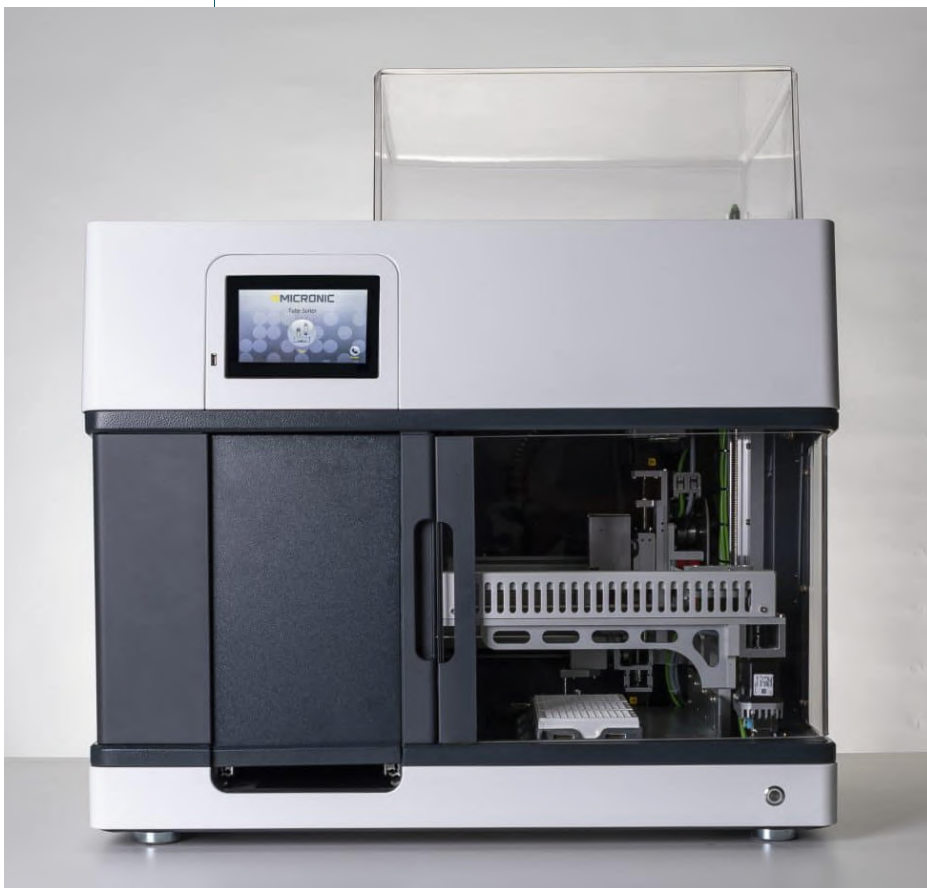
- Deposits frozen aliquots into 96-well format racks that can be customized to fit any destination tube type
- Includes a source sample fixture area that can be adapted to fit the tube type or sample type customer would like to core from
- Holds up to 24 probes and is filled with LN2 through port hole to keep workspace cold
- Programming & operation of instrument just like CXT 353 except coring head is not stationary; can swivel to reach larger source sample and destination areas



TUBE
PROCESSORS

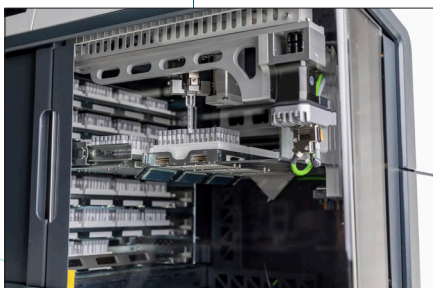
MICRONIC TUBE HANDLER HT700

An automatic system that can sort and read up to 24 racks of tubes at once.



FEATURES AND BENEFITS

- Unique “cassette” design creates small footprint with large capacity, compared to other tube handlers where racks are placed side by side on a platform
- Short distance between samples and target rack makes sorting 800 tubes per hour quick & easy
- Unique closed system guarantees safety of the user and separate safety stop ensures sample/product protection
- Compatible with many brands of storage tubes and can potentially be customized based on user application
- Compatible with 96-well format racks
- Compatible with tubes ranging in size from 0.30ml to 1.40ml
- Reads 1D rack barcodes and 2D coded tubes
- Automatic linking between rack ID and rack position instead of using separate 1D barcode reader
- User-friendly, intuitive interface
- Source rack capacity: 24 racks
- Target rack capacity: 1-3 racks
- Can load CSV file of “pick list” generated from a LIMS system
- Outputs CSV file of rack content



THE X-TUBEPROCESSOR SERIES

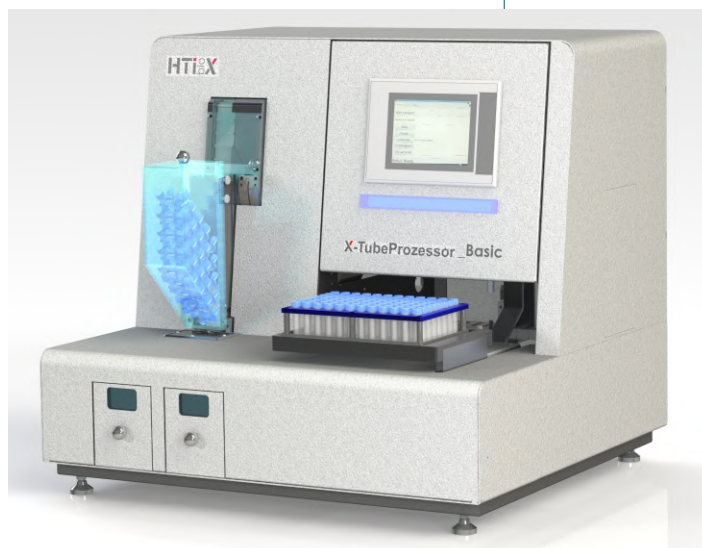
For automated tube and liquid handling.

TUBE PROCESSORS

THE BASIC MODEL

For users who need a standard level of automation.

- Handles up to 600 tubes per hour
- Holds up to 7 racks w/ extended rack feeder
- Operates by compressed air
- Small footprint
- Includes cap and rack feeders
- (De)caps different sizes of tubes and caps
- Labeling module can be added
- Peristaltic pump can be added to dispense liquids/powders in parallel or sequentially
- Can read & identify barcodes on tubes & racks



THE SMART MODEL

For users who need a fully electric tube processor.

- Handles up to 600 tubes per hour
- Holds up to 4 racks
- Operates by electricity
- Includes cap feeder
- Small footprint
- (De)caps different sizes of tubes and caps
- Labeling module can be added
- Peristaltic pump can be added to dispense liquids/powders in parallel or sequentially
- Can read & identify barcodes on tubes & racks

PROCESS
MORE TUBES
IN LESS
TIME!



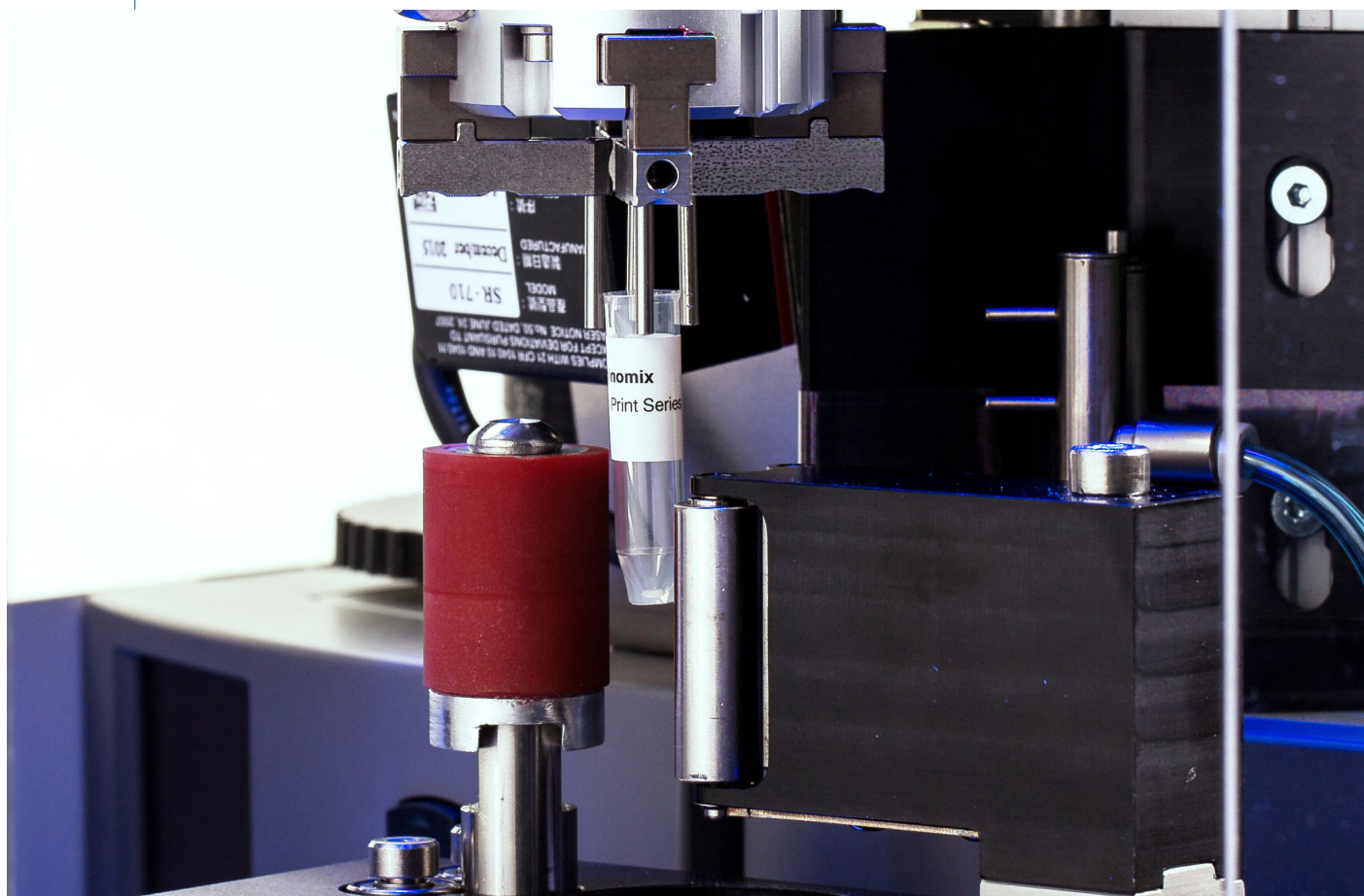
DID YOU KNOW...

We offer preventative maintenance plans to help you preserve the functionality of your laboratory automation equipment. Whether your instruments need tuning up or your QC protocols require a strict maintenance schedule, our trained service technicians will provide you with the service you need to thrive in the lab.



TECHNICAL SERVICE

Preventative maintenance plans that keep your equipment in excellent condition.



By investing in our preventative maintenance plans, 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. Need a preventative maintenance plan? Can't fix an issue on your own? Contact us at 724-941-6411 or info@nbsscientific.com to discuss your laboratory's needs. We'll help you solve the problem so you can get back up and running in no time.

KEEP YOUR
EQUIPMENT
IN TOP
SHAPE!

NEED HELP?

There are four easy ways to contact us.



724-941-6411



[INFO@NBSSSCIENTIFIC.COM](mailto:info@nbsscientific.com)



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724-941-8662

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



- Communicate via email & only print forms and papers 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 were recently 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 (also known as the Environmental Impact Factor 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 16:4 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
My Green Lab  mygreenlab.org	
<small>*Energy and water consumption measured for this value, all other values are a result of</small>	

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, MPS2810-120 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
My Green Lab  mygreenlab.org	
<small>*Energy and water consumption measured for this value, all other values are a result of</small>	

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