

we deliver  
you discover



innovative  
laboratory  
solutions



we deliver  
you discover

1003 Ashwood Drive  
Canonsburg, PA 15317  
+1 724 941 6411

+1 724 941 8662  
info@nbsscientific.com  
nbsscientific.com

our  
brands

Box Scientific

GenTegra

HTI bio-X

Micronic

Norgen Biotek

Scinomix

TBS Technologies

Triskelion

XQ Instruments

xxpress®

ABOUT NBS SCIENTIFIC

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

NBS Scientific is a distribution company with over 10 years of experience in the life science research market. We supply our customers with high-quality products to help them improve their sample collection, sample storage, sample tracking, lab automation, and in vitro digestion research processes.

Every day, we help our customers solve challenges in the lab by supplying them with the products they need to conduct complicated scientific research. By taking the time to evaluate our customers’ budget, goals, and specific research applications, we have become a respected and valued partner in the life science marketplace.

NBS Scientific exists out of a network of distribution companies located in Europe and the USA. We work closely together to provide a wide range of products and the best possible customer service on a global scale.

OUR VALUES

*The four main values that drive our company.*

INNOVATION



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

CREATIVITY



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

QUALITY



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

SUSTAINABILITY



Our corporate social responsibility program emphasizes sustainability and contributions to local and international charities.

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OUR BRAND PROMISE

At NBS Scientific, we vow to deliver the high-quality service and personalized solutions our customers need to discover major scientific insights in the lab. Need help finding the perfect solution for your research application? We’ve got you covered. Every day of the week. That’s our promise to you.



## sample collection



## SAMPLE COLLECTION

### SALIVA DNA COLLECTION KIT

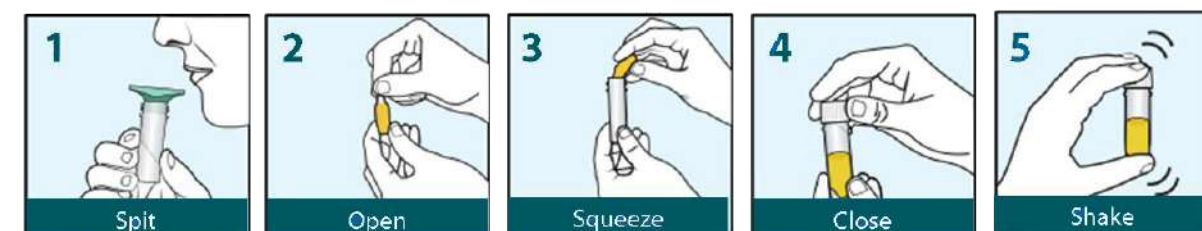
*A user-friendly, all-in-one way to collect, preserve, and isolate saliva DNA.*

#### FEATURES AND BENEFITS

- Complete, affordable solution for collection and preservation of saliva DNA
- High DNA yield and integrity
- Inhibitor-free DNA for applications like NGS, PCR, microarrays, SNPs, and methylation studies
- Saliva DNA stable for over 75 months when kept sealed and stored at room temperature
- Collection kits and devices can be customized with company name, logo, and specific instructions



#### SALIVA DNA DONOR PROCEDURE



A FAST & EASY WAY TO COLLECT SAMPLES!

### RELIABLE, NON-INVASIVE SAMPLE COLLECTION DEVICES.

At NBS Scientific, we offer innovative ways to collect, preserve, and isolate samples at ambient temperatures. With our sample collection devices and kits, you can quickly and easily collect and preserve DNA and RNA in saliva, nucleic acids in stool, and DNA and RNA in urine. Our sample collection kits are reliable, non-invasive, user-friendly, and easy to transport, which means you'll never have to worry about the integrity of your samples again.

### SALIVA RNA COLLECTION

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

#### FEATURES AND BENEFITS

- Contents of kit include saliva collection funnel and 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





## SAMPLE COLLECTION

## STOOL AND URINE COLLECTION KITS

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

CUSTOMIZE  
YOUR KITS!



### FEATURES AND BENEFITS

- Tubes available in various 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

### 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



## DID YOU KNOW...

Norgen Collection Kits and devices can be customized with your company logo, branded documentation, branded packaging, and more? Contact us today for more information about our custom collection kits.

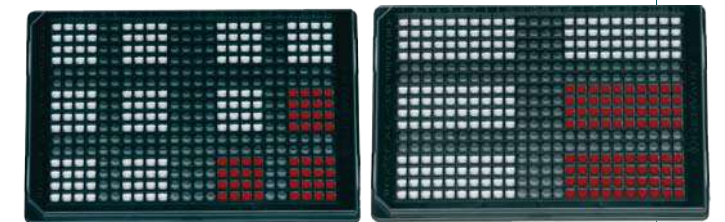


## GENPLATES®

*An automation-friendly way to store blood and other biological fluids on FTA paper.*

### FEATURES AND BENEFITS

- High-density 384-microplate format with 6mm disc of FTA paper in each well
- Standard for protecting DNA stored on paper as dried blood spots



## SAMPLE COLLECTION

## GENTEGRA DNA AND RNA

*Water soluble chemical matrices that protect DNA in a dry state.*

### FEATURES AND BENEFITS

- When added to purified DNA or RNA, allows it to be air-dried to form solid matrix which preserves DNA or RNA in dry state
- Effectively protects against high temperatures likely to be encountered when shipping samples
- Expected shelf life is 3 years at ambient temperatures



## GENSOLVE™ DNA RECOVERY KIT

*A robust kit that extracts high-quality, high-quantity DNA from dried blood spots (DBS).*

### FEATURES AND BENEFITS

- Kit extracts double-stranded DNA preserved in GenPlates, FTA paper, Guthrie cards and all filter papers
- Provides higher concentration of DNA from filter paper to purification in less than 90 minutes
- Yields unmatched amounts of DNA regardless of the paper DBS is on
- Typically yields between 50-360 ng from 10 microliters of whole blood
- New DNA Complete Kit includes convenient column-based purification
- Use with any purification kit





## SAMPLE COLLECTION

### NOVITAIN RACKS

A 50-well format rack that's compatible with automated pre-analytical systems.

#### FEATURES AND BENEFITS

- Cost-effective solution for temporary storage of sample collection tubes
- Compatible with tubes 13.0 mm in diameter
- Automation friendly
- Design ensures equal temperature for all tubes during freeze-thawing
- Lightweight storage rack
- Resists chemical solvents
- RNase/DNase and Pyrogen free



EASY WAY  
TO SEAL &  
STORE IVD  
TUBES!

### NOVITAIN CAPCLUSTER-50

A rapid solution for sealing 50 racked sample collection tubes at once.

#### FEATURES AND BENEFITS

- After capping 50 tubes at once, retaining foil can be removed to leave each tube individually capped
- Caps have small tab for easy removal
- Multi-pierceable without losing seal integrity
- Made out of medically approved material (USP Class VI certificate)
- Compatible with tubes 13.0 mm in diameter
- Resists chemical solvents
- RNase/DNase and Pyrogen free



### ALSO AVAILABLE...

The Novitain Manual Capper CV750 is a user-friendly device that seals 50 sample collection tubes at once in less than 2 seconds. Simply place the Novitain Capcluster-50 on the racked tubes, place the Novitain rack into the capper, and pull the handle to cap all 50 tubes evenly.



## sample storage



### MICRONIC LABWARE



- Manufactured and assembled in a certified clean room environment (US Federal Standard 209E Class 7)
- Materials and auxiliary agents used to manufacture labware are FDA compliant and selected based on the highest purity levels
- No measurable amount of extractables from material leach into samples
- Complies with highest injection molding standards and is free from RNase and DNase contamination
- Endotoxin level of labware limited to an acceptable minimum (<0.01 EU/ml)
- Complies with Class 1 CE label. Material Safety Data Sheets available for all products (EU directive 98/79/EC is the leading standard)
- Upon request, products can be sterilized with gamma radiation

brands

**MICRONIC**  
INNOVATION IN SAMPLE STORAGE

SAMPLE  
STORAGE

INTERNAL THREAD TUBE CHART  
*Overview and specifications.*

							
	0.50 ml	0.75 ml	1.10 ml	1.40 ml	2.00 ml	4.00 ml	6.00 ml
Storage Rack	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	Micronic 96-5	Micronic 48-4	Micronic 24-4
Inner Tube Shape	V-bottom	V- or U-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	Yes	Yes	No	Yes	Yes	Yes	No
Non-coded	Yes	Yes	Yes	Yes	No	Yes	Yes
Capping Options	Screw Cap Push Cap	Screw Cap Push Cap	Screw Cap Push Cap	Screw Cap Push Cap	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	43.35 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	No	No	No
Minimum Storage Temperature	Vapor Phase LN2	Vapor Phas LN2	Vapor Phase LN2	Vapor Phase LN2	-80°C*	Vapor Phase LN2	Vapor Phase LN2

TUBES  
FOR EVERY  
APPLICATION!

TUBESTRIP-8



AMBER TUBES






SNAP TUBES



EXTERNAL THREAD TUBE CHART  
*Overview and specifications.*

SAMPLE  
STORAGE

								
	0.30 ml	0.40 ml	0.75 ml	0.80 ml	1.00 ml	1.40 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 24-2	Micronic 48-4
Inner Tube Shape	V-bottom	V-bottom	V-bottom	V-bottom	Flat Bottom	V-Bottom	Flat Bottom	Flat Bottom
Working Volume with Screw Cap	0.30 ml	0.40 ml	0.60 ml	0.75 ml	0.85 ml	1.11 ml	3.35 ml	3.40 ml
2D Coded	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Outer Diameter	9.0 mm	8.8 mm	9.0 mm	8.8 mm	13.0 mm	9.0 mm	16.30 mm	13.0 mm
Tube Height	16.35 mm	21.8 mm	30.0 mm	34.8 mm	16.0 mm	48.0 mm	30.0 mm	48.0 mm
With Screw Cap	17.75 mm	25.3 mm	33.5 mm	38.3 mm	19.7 mm	51.5 mm	33.5 mm	51.5 mm
In Rack	19.5 mm	22.5 mm	31.0 mm	35.5 mm	17.0 mm	49.0 mm	31.2 mm	45.0 mm
In Rack with SC	21.1 mm	N/A	34.5 mm	39.0 mm	20.7 mm	52.5 mm	34.7 mm	52.0 mm
In Rack w/ Cover	23.8 mm	N/A	37.8 mm	41.5 mm	23.8 mm	55.8 mm	36.5 mm	55.9 mm
Twist-lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Snap Tube	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	Vapor Phase LN2	Vapor Phase LN2

SUPERIOR TUBE FEATURES

*High-quality tubes in a wide range of sizes and 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.





SAMPLE  
STORAGE

HYBRID TUBE CHART  
*Externally threaded tubes with 4 coding concepts.*

							
	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	6.00 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
Height tube in rack	30.8 mm	48.8 mm	17.0 mm	30.8 mm	42.0 mm	24.0 mm	48.8 mm
Precapped	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Twist-lock	Yes	Yes	Yes	Yes	Yes	No	Yes
Min. Storage Temp. Availability	Vapor Phase LN2 Bulk, Rack	Vapor Phas LN2 Bulk, Rack	Vapor Phase LN2 Bulk, Rack	Vapor Phase LN2 Bulk, Rack	Vapor Phase LN2 Bulk, Rack	Vapor Phase LN2 Bulk, Rack	Vapor Phase LN2 Bulk, Rack

AVAILABLE  
IN SMALL  
PACKS!

- FEATURES AND BENEFITS OF HYBRID TUBES
- Includes 2D Data-Matrix code, 1D barcode, human readable code, and blank space for own ID
  - 1D & 2D barcodes laser-etched onto tube
  - White code surfaces permanently on tube
  - Triple-start thread ensures optimal seal quality for long-term storage



SCREW CAPS

*Caps that securely seal tubes for ultra-low temperature storage.*

SCREW CAPS FOR EXTERNAL THREAD TUBES

- Triple-start thread for optimal sealing
- Available in 9 different colors
- Ideal for storage in ultra low temperatures
- Unique lock when sealed prevents overturning of cap
- Cap optimized for automated equipment



SAMPLE  
STORAGE

SCREW CAPS FOR INTERNAL THREAD TUBES

- Silicon O-ring ensures optimal sealing
- Available in 12 different colors
- Ideal for storage at ultra-low temperatures
- Automation friendly
- Compatible with 96-, 48-, or 24- format Micronic tubes



SCREW CAP ULTRA



- New design optimizes automated & manual handling since O-ring falls within tube
- Improved sealing performance for tubes with internal thread
- Available in four premium colors: blue, yellow, light green, red
- Ideal for storage at ultra-low temperatures

LOW PROFILE SCREW CAPS

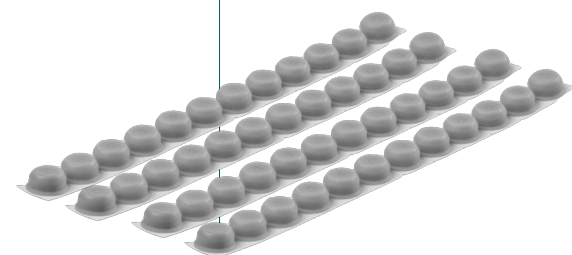
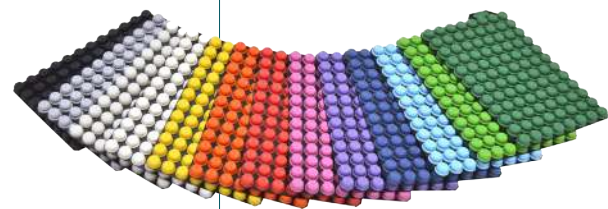


- High-quality O-ring ensures optimal sealing
- Saves up to 33% of freezer space
- Available in 12 different colors
- Compatible with 96-format tubes
- Additional options: sterilized and precapped

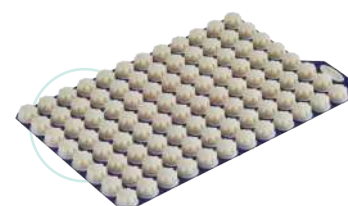
## SAMPLE STORAGE

### PUSH CAPS

*Caps that tightly seal tubes for long-term sample integrity.*



### TPE LYO CAPS



*Specially developed for lyophilization process.*

### TPE CAPCLUSTERS

- Caps 96 tubes at once; remove backing to leave each tube individually capped
- Compatible with 96-format internally threaded tubes
- Available in natural and 12 different colors
- Store samples in temperatures as low as -80°C

### TPE CAPMATS

- Capmats cap 96 tubes at once; non-removable backing keeps tubes together once capped
- Compatible with 96-format internally threaded tubes
- Available in natural and 12 different colors
- Store samples in temperatures as low as -80°C

### TPE CAPBANDS

- Cap strips of 8 or 12 tubes in a single row or column
- Arranged on a non-removable back to keep tubes together once capped
- Available in natural and 12 different colors
- Use for samples stored in temperatures as low as -40°C

### EVA PUSH CAPS



*Economical way to seal sample storage tubes.*

### TPE AUTO DECAPPER



*Removes 96 push caps at once in 8 seconds.*

AVAILABLE  
IN SMALL  
AND LARGE  
PACKS!

## STORAGE RACKS

*An efficient way to store and protect your valuable samples.*

### ULT RACKS

- Polycarbonate storage racks
- Compatible with all Micronic tubes
- Industry-standard ANSI/SLAS footprint
- Includes transparent cover
- Twist lock design prevents tubes from turning during screw cap (de)capping
- "Icebreaker" locking system for cryogenic storage
- Laser-etched alphanumeric coding on top of rack and 1D barcode on rack included for further identification



## SAMPLE STORAGE



### ROBORACKS

- Polypropylene storage rack
- Available with laser etched 1D rack barcode
- Use with Micronic code readers
- Open bottom & twist lock design prevents tubes from turning during (de)capping
- Tapered wells for precise tube placement



### COMORACKS

- Polycarbonate storage rack
- Available with laser etched 1D rack barcode
- Autoclavable up to 100 times
- Easily open with one hand
- Secure & safe locking system
- Open rack bottom



### LOBORACKS

- Polypropylene storage rack
- Available with laser etched 1D rack barcode
- Use with Micronic code readers
- Secure & safe locking system
- Tapered wells for precise tube placement in racks



SAMPLE  
STORAGE

FREEZER RACKS

The optimal way to organize samples and maximize storage space.

CONTACT US  
TODAY FOR  
MORE SIZES!



FEATURES AND BENEFITS

- Helps organize samples and maximize storage space in freezer
- Eliminates time searching for samples, thus keeping experiments on track
- Custom-built racks 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 based on preference
- Lifetime workmanship guarantee

LIQUID NITROGEN FREEZERS

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

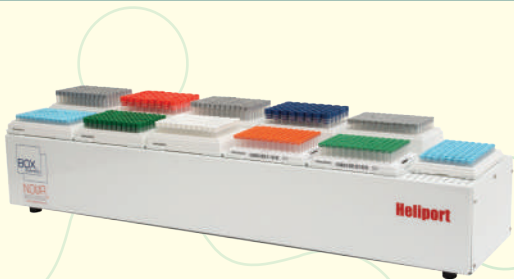
FEATURES AND BENEFITS

- 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)



STORE AND THAW

When you store racks of tubes in custom freezer racks, you increase the organization of your lab and prevent valuable samples from being accidentally misplaced, mislabeled, or discarded. Eventually, when you need to thaw those samples for further testing, you can rely on our rack thawing stations to help you get the job done quickly.



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, TS201 MINI, 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 PREMIUM

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



STARTER PACK PREMIUM

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



# laboratory automation



brands  
**MICRONIC**  
INNOVATION IN SAMPLE STORAGE

**HTiOx**

## SYSTEMS DESIGNED TO OPTIMIZE YOUR RESEARCH.

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 cappers and decappers, tube labeling systems, full rack and single tube code readers, tube handlers, rack thawing stations, a BSC disinfection system, and a qPCR thermal cycler. Every piece of equipment is engineered to identify samples accurately and handle them with care.

## THE CAPMATE PLUS

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

### FEATURES OF CAPMATE PLUS

- Caps 20-30 tubes per minute
- Bowl feeder automatically moves caps into capping head
- Digital cap counter tracks how many tubes have been capped
- Automatic button sends tubes into unit, capping them automatically

### BENEFITS OF CAPMATE PLUS

- Expedites and automates a segment of laboratory workflow
- 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

### SPECIFICATIONS

- Unit Size: 14.4 x 8.7 x 19.7 in
- Weight: 19.4 lbs
- Power supply: 115V

ELIMINATES  
FATIGUE IN  
THE LAB!



LABORATORY  
AUTOMATION

## ALSO AVAILABLE...

The CapMate Duo is a compact, table-top device that manually caps and decaps screw cap tubes. Similar to the CapMate Plus, the CapMate Duo offers a user-friendly way to increase productivity and reduce injuries in the lab. Its capping performance prevents leakages during transit and the unit itself requires little to no maintenance.



LABORATORY  
AUTOMATION

## AUTOMATIC PUSH CAP (DE)CAPPERS

User-friendly, automatic (de)capping equipment for push cap tubes.



### AUTOMATIC PUSH CAP DECAPPER

Decaps an entire rack of push cap tubes in 8 seconds.

- No adapters required
- Simple and safe operation
- User-friendly interface for easy selection of tube size
- CE-approved and conform UL
- Operates stand-alone or in fully automated environment
- Minimizes cross-contamination
- Compatible with complete range of Micronic 96-format tubes (up to 1.40ml) and other brands of tubes and caps



### ELECTRIC PUSH CAP CAPPER

Caps an entire rack of push cap tubes in 7 seconds.

- No adapters required
- Operates without any buttons
- Compact and robust design
- Controlled pressure system for an even capping result
- Works on full and partially-full racks (minimum of 10 tubes required)
- Compatible with complete range of Micronic 96-format tubes (up to 1.40ml) and racks and other brands of tubes and caps

## MICRONIC SCREW CAP RECAPPERS

Automatic devices that cap, decap, and recap screw cap tubes.

### MICRONIC SCREW CAP RECAPPER CS500

Caps, decaps, and recaps an entire row of tubes in 5 seconds

- 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
- Screw caps tightened securely and uniformly



AWARD-  
WINNING  
DESIGNS!

### MICRONIC SCREW CAP RECAPPER CS700

Caps, decaps, and recaps an entire rack of tubes in less than 30 seconds.

- User-friendly touch screen
- Ethernet connection allows for various protocols
- Models for 96-, 48-, and 24-format screw cap tubes
- Precise torque value for optimal sealing quality
- Quiet operation
- Compatible with Micronic tubes (up to 6.0ml) and tubes from other brands
- No adaptors required
- Optional sensor cap detection
- Operates stand-alone or in a fully automated environment



## LABORATORY AUTOMATION

### MANUAL CAPPER CM480

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



EASY WAY  
TO CAP  
PUSH CAP  
TUBES!

#### FEATURES AND BENEFITS

- Cap 96 push cap tubes with one action
- Compact & robust manual device
- Seals full & partially full racks with complete range of Micronic TPE and EVA style caps
- Caps tubes up to 1.40mL in all ANSI/SLAS format racks up to 48mm in height
- Compatible with tubes, racks, deepwell plates, and caps from other brands
- Custom adaptors made to accommodate specific tube/deepwell plate heights
- Receive one free adaptor upon purchase

### MANUAL DECAPPING TOOLS

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



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

**MANUAL DECAPPER-8**  
Removes 8 push caps at once.  
Also available in aluminum for frozen tubes.

**SCREW CAP REMOVER**  
Caps and decaps individual screw cap tubes.

### SCINOMIX RAPIDCAP

An all-electric capper that caps more than 550 tubes per hour.

#### FEATURES

- Capping rate: 6.5 seconds per tube
- Decapping rate: 4.0 seconds per tube
- (De)caps 0.50 ml or 2 ml cryovials (contact us for custom sizes)
- Easy set-up, plug and play system, self-contained (no external computer required)
- All electric (no air required)
- Different rack configurations can be processed within same run
- Can handle 2 racks (ANSI/SLAS footprint) of 48 tubes at same time or 1 rack footprint of 96 tubes
- Accommodates Honeycomb style racks
- Cap sorter can be easily removed
- Multiple drums can be purchased if working with different cap colors
- Drum capacity: 1,500 caps



#### BENEFITS

- Saves time & expedites workflow
- Reduces repetitive injuries from capping & decapping tubes
- Eliminates tedious tasks from lab
- Increases productivity and efficiency

#### SOFTWARE

- User-friendly touch screen software that displays rack configurations on screen
- Users can select specific tubes/racks to be (de)capped
- Users can select LED colors to indicate machine status

#### SPECIFICATIONS

- Size: 24.5" (W) x 23.5" (D) x 27" (H)
- Weight: 140 lbs

## LABORATORY AUTOMATION



LABORATORY  
AUTOMATION

## FULLY AUTOMATED TUBE LABELERS

*A compact, modular tube labeling systems that labels up to 425 tubes per hour.*



### FEATURES OF SCI-PRINT VXL

- 6-position work deck (accommodates up to 600 tubes at once)
- Thermal transfer printer
- Can handle honeycomb plates
- Compatible with Matrix and Micronic 2D vials
- Labels tubes and vials ranging from 0.5ml-50ml
- Additional modules include capping and decapping, barcode scanning for tube identification, and dispensing
- Bulk tube feeder (VXQ) can be attached

### BENEFITS OF SCI-PRINT VXL

- Increases productivity and efficiency
- Provides valuable walk-away time
- Consistently places labels on tubes
- Improves barcode scanning process
- Handles multiple tube types
- Eliminates human error that occurs from hand labeling
- Reduces repetitive injuries from hand labeling

### OPERATION REQUIREMENTS

- System: Windows 7/8/8.1/10 NET 4.5.1 framework
- 80-90 PSI @ 1 CFM
- 110-240 VAC

### ENABLED SYMBOLOGIES

- Code 128
- Code 39
- Interleaved 2 of 5
- 2D Data-Matrix



## ALSO AVAILABLE...

In addition to their fully automated and semi-automated tube labelers, Scinomix offers the Scinomix RETROS, a tube sorter that can handle 1,200 tubes per hour and hold up to 12 SBS footprint racks. The RETROS can handle multiple tube types within the same system, and a scanner can be mounted on the base to validate 2D barcoded tubes.

## THE SCINOMIX VXQ BULK TUBE FEEDER

*A compact tube and vial handler that loads tubes into racks, saving you time and energy.*

### FEATURES AND BENEFITS

- Seamless integration with Sci-Print VXL and Sci-Print VX2
- When paired with Scinomix units, can handle 200-300 tubes per hour
- Quiet operation
- Small footprint
- User-friendly touch screen makes it easy for users to change tube type
- Handles multiple tube types
- Increases walk-away time
- Eliminates human error and tedious, time-consuming tasks
- Reduces repetitive injuries

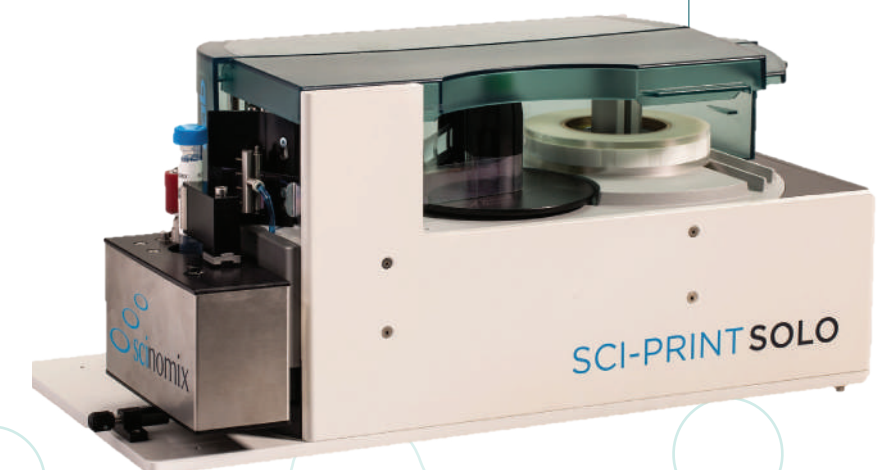


## SEMI-AUTOMATED TUBE LABELER

*A table-top system that labels 15 tubes in approximately 60 seconds.*

### FEATURES AND BENEFITS

- Thermal transfer printer
- Compatible with tubes and vials from 0.5ml to 50.0ml
- Maximum label height: 2 inches
- Windows-based software
- Labels 15 tubes in just 60 seconds
- Consistently places labels
- Increases efficiency and productivity in the lab
- Eliminates human error that often occurs from hand labeling tubes
- Easily integrates into third-party systems



REDUCES  
ERRORS  
FROM HAND-  
LABELING!

LABORATORY  
AUTOMATION

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

LABORATORY  
AUTOMATION

**Micronic DR900**  
COMING SOON!



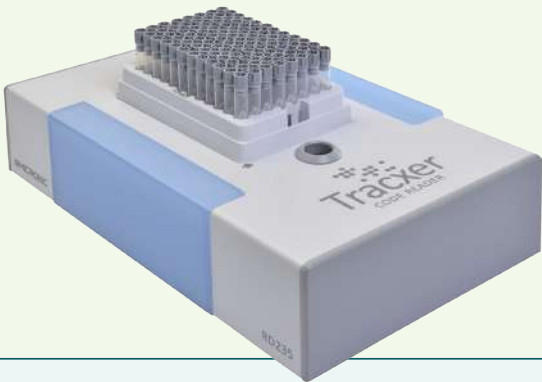
**Micronic DR500**



**Micronic DR505**



**Tracxer RD235**



FEATURES



Scan time: 1 second



Dimensions: 7.9 x 6.9 x 2.4 in



Camera based technology



96, 48, 24-format compatible



Anti-frost system



Single tube reading



Optional 1D barcode reader

Scan time: 5 seconds

Dimensions: 10.4 x 7.4 x 2.9 in

CIS Imaging Technology

96, 48, 24-format compatible

N/A

Single tube reading

Optional 1D barcode reader

Scan time: 5 seconds

Dimensions: 10.4 x 7.4 x 2.9 in

CIS Imaging Technology

96, 48, 24-format compatible

Anti-frost system

Single tube reading

Optional 1D barcode reader

Scan time: 7 seconds

Dimensions: 11.7 x 7.1 x 2.6 in

CCD Imaging Technology

96, 48, 24-format compatible

Anti-frost system

Single tube reading

Optional 1D barcode reader

INCLUDES  
SINGLE-TUBE  
READING  
FUNCTION!

DID YOU KNOW...

Every Micronic scanner comes with free, user-friendly Micronic Code Reader Software that's reliable, easy to install, and compatible with all laboratory sample databases. Likewise, the Tracxer RD235 scanners come with free Tracxer Code Reading Software.



The Micronic DR900, DR505, and Tracxer RD235 scanners are designed with an anti-frost system that can read racks filled with 2D barcoded tubes straight from the freezer. The anti-frost system minimizes condensation on the scanning surface, giving each scanner the ability to read all tube codes, even the ones on frozen samples.



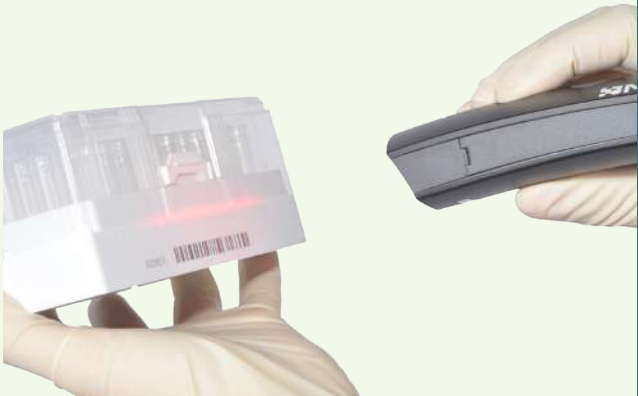
LABORATORY  
AUTOMATION

SINGLE TUBE CODE READERS  
*For fast, accurate, and efficient sample identification.*

TS201 Mini 1D & 2D Code Reader



Handheld Mini Wireless



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



96, 48, 24-format compatible

96, 48, 24-format compatible



1D barcode reading

1D barcode reading



2D Data-Matrix code reading

2D Data-Matrix code reading

DID YOU KNOW...

Micronic equipment is designed 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.



MICRONIC TUBE HANDLER HT700

*An enclosed, compact, automatic system that sorts and reads up to 24 racks of tubes at once.*

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AUTOMATION

FEATURES AND  
BENEFITS

- 24 source racks
- 1-3 target racks
- Throughput: sorts 900 tubes per hour
- Compatible with 0.50ml, 0.75ml, 1.10ml, and 1.40ml racked tubes (capped or uncapped)
- 1D barcode reading available for source and destination racks
- Automatic rack position detection
- Worklists can be uploaded via USB stick
- Operating requirements: 115V
- Dimensions: 22" L x 34" W x 35" H



PROCESS  
MORE TUBES  
IN LESS  
TIME!





LABORATORY  
AUTOMATION

## THE X-TUBEPROCESSOR SERIES

*For automated tube and liquid handling.*



### THE BASIC MODEL

*For users who want a standard level of automation.*

- Handles up to 600 tubes per hour
- Holds up to 7 racks
- Operates by compressed air
- Small footprint
- Includes cap and rack feeders
- (De)caps different sizes of tubes and caps
- Labels different sizes of tubes with various labels
- Dispenses and/or pipettes various liquids/powders in parallel or sequentially
- Identifies barcodes on tubes and racks



### THE SMART MODEL

*For users who want 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
- Labels different sizes of tubes with various labels
- Dispenses and/or pipettes various liquids/powders in parallel or sequentially
- Identifies barcodes on tubes and racks

## 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.



## THE X-TUBEPROCESSOR SERIES

*For automated tube and liquid handling.*

### THE FLEX MODEL

*For users who want an easily scalable tube processor.*

- Handles up to 600 tubes per hour
- Holds up to 50 racks
- Operates by compressed air
- Large footprint
- Includes cap, tube, and rack feeders
- (De)caps different sizes of tubes/caps
- Labels different sizes of tubes with various labels
- Dispenses and/or pipettes various liquids/powders in parallel or sequentially
- Identifies barcodes on tubes and racks
- Includes peristaltic and/or syringe pump
- Sterile applications possible

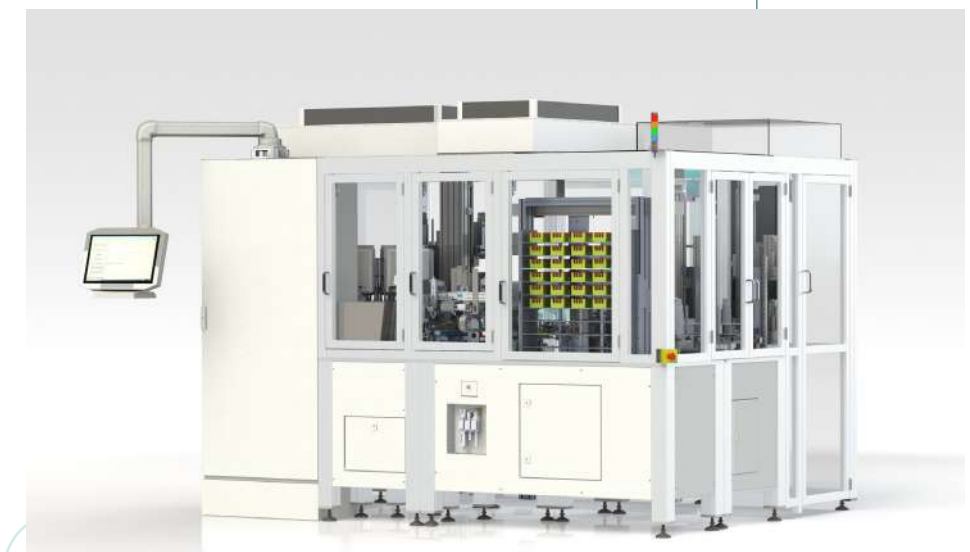


MODELS  
FOR EVERY  
AUTOMATION  
LEVEL!

### THE ULTRA MODEL

*For medium to large productions.*

- Handles up to 1,000 tubes/hour
- Holds up to 100 racks
- Runs up to 10 processes at once
- Operates by compressed air
- Large footprint
- Includes tube, cap & rack feeders
- Includes (de)capping, labeling, dispensing, and identification modules
- Includes peristaltic and/or syringe pump, and thermal/laser printing
- Sterile applications possible





LABORATORY  
AUTOMATION

## RACK THAWING STATIONS

Bench-top systems that expedite the rack thawing process.



### STATION ONE

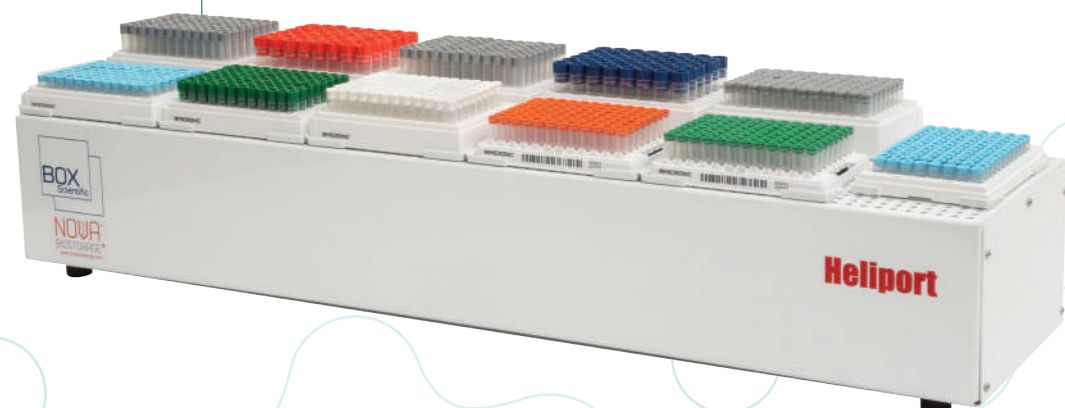
Dual-fan rack thawing station.

- Decreases thawing times up to 75% without heat
- Dual fans channel air through perforated thawing tray, and then circulates over and around samples
- Holds 2 microplates or microtube racks at one time
- Accessory racks fit industry standard tubes from 1.0ml to 50.0ml
- Small accessory holds 52 small tubes
- Large accessory holds 34 large tubes
- Compact footprint
- Easily integrates with automation instruments
- Full 1-year warranty

### THE HELIPORT

11-place rack thawing station.

- Completely thaws up to 11 microplates or microtube racks in as little as 15 minutes
- Expanded, customizable thawing surface for large sample arrays
- No need to tweak controls, calibrate, or perform maintenance
- Seven 92mm fans thaw samples
- Can be integrated into automated and liquid handling systems
- Eliminates edge effects, fold starts, and process variation
- Increases throughput without risking quality of samples and expensive reagents
- Full 1-year warranty



SHORTER  
THAWING  
TIMES!

## TBS-1080

The only chlorine dioxide disinfection system that meets industry standards and fits inside a BSC.

### FEATURES AND BENEFITS

- Small, lightweight & portable (12 lbs)
- User-friendly operation
- Large LCD screen shows progress of disinfection
- Disinfects in 90 mins
- 2 steps prevent accidental start
- Fits inside BSC
- Effective on all forms of microorganisms, viruses & spores
- Uses prepackaged reagents and refillable chemical cartridges
- ClO2 gas recognized by EPA as acceptable disinfection method
- No chlorine gas generated



#### Voted Best

Water/Chemical/Gases  
and Related Equipment

Controlled Environments Magazine  
2017 Readers' Choice Awards



LABORATORY  
AUTOMATION

## DID YOU KNOW...

More than 27,000 facilities in the United States have biological safety cabinets for scientists and researchers to work with dangerous or potentially dangerous samples? Although many facilities keep their biological safety cabinets clean with formaldehyde gas, liquid disinfectants, and/or UV light, the TBS-1080 uses chlorine dioxide gas to efficiently, reliably, and effectively disinfect BSCs.

LABORATORY  
AUTOMATION

## XXPRESS® QPCR THERMAL CYCLER

*The fastest qPCR cyclers in the world.*

### USER-FRIENDLY INTERFACE

- Touch screen interface with built-in computer
- Icon-based programming w/ pre-set methods
- Software guides users through experiment, selecting reagents, PCR types, plate format, and thermal profiles

### THERMAL ACCURACY

- Consistent and comparable results from sample-to-sample and assay-to-assay
- Thermal uniformity of +/- 0.3C during cycling
- Heating patterns adjusted at a rate of 100 times per second so uniformity during ramping is better than +/- 0.8C

### COST SAVINGS

- Save 90% of reagent running costs
- Ideal multi-user

### SPEED & FLEXIBILITY

- 40 cycles of qPCR in 10 minutes
- Thermal ramp rate of up to 10°C per second
- Ultra-low thermal mass and high conductivity of consumable plates
- Up to 5 experiments completed per hour and more than 40 per shift
- One unit does the work of 6 standard qPCR thermal cyclers
- Works with 24-, 54-, & 96-well plates



FASTER  
TEST CYCLES  
FOR QUICK  
ROI'S!

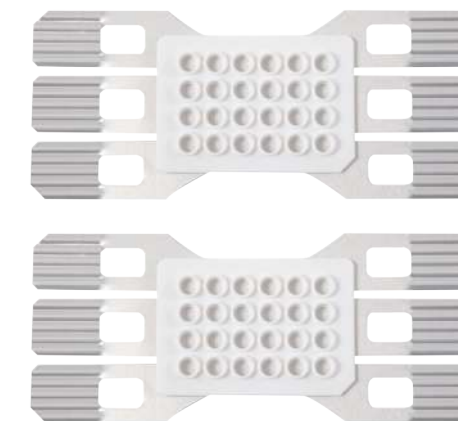
## XXPRESS®

*Products designed to optimize your protocol with the xpress® unit.*

### XXPLATES™

*Thermal Cycler Consumable*

- Available in 3 sizes: 24-, 54-, and 96-well
- The xpress™ NGx recognizes which plate size is inserted and in which orientation before adjusting layout of results accordingly
- Plate sizes cover sample volumes from 1ul to 40ul, allowing for optimal use of reagents and minimizing cost-per-test
- 24- and 96-well plates compatible with auto pipetting systems



### XXCENTRIFUGE™

*qPCR plate centrifuge for even distribution of sample*

- Evenly distributes sample at bottom of well prior to thermal cycling
- Can also be used for applications like analytical chemistry, microbiology, and virology
- Has rotor that can hold all of the xxplates™
- Includes microprocessor control system that provides smooth rotations
- Safety controls lock lid during operation



### XXSEALER SA™

*Semi-automated PCR plate heat sealer*

- Safe and controlled method for sealing samples into plate wells
- Protects samples from evaporation and contamination during heating & cooling cycles
- Dwell time & temperature adjustable
- Can pierce sealing films to remove PCR mixture for downstream processing
- Designed to be used with range of sample plates and consumables



LABORATORY  
AUTOMATION



# in vitro digestion



## THE TINY-TIM

*The only device that can accurately mimic the dynamic conditions of the digestive system.*

## IN VITRO DIGESTION

### FEATURES AND BENEFITS

- Has nutritional & pharmaceutical applications
- Eliminates ethical constraints
- Settings for adults, children & animals
- Simple, user-friendly operation
- Easy-to-use graphical touch screen
- Bench-top system
- Increased reproducibility versus *in vivo* studies
- System's high predictive quality documented in more than 230 peer-reviewed publications
- Fast & cost efficient way to conduct research



### GASTROINTESTINAL MODULE



- Compartments simulate the shape and motility of stomach and small intestine
- Computerized peristaltic pump transports gastric content into small intestinal compartment

### DISPENSING MODULE



- Pumps secretion fluids into GI compartments & fresh filtration/dialysis fluids into membrane units
- Syringe pump dispenses fluids with high accuracy
- Graduated syringes allow direct visual monitoring of dispensed volumes

### SAMPLING MODULE



- Sampling bottles collect filtrate or dialysis fluid from small intestinal compartment
- Controlled, FMI pump fills bottle with pre-determined weight of sample

AVAILABLE  
FOR LEASE  
& PURCHASE  
IN THE US!

brands



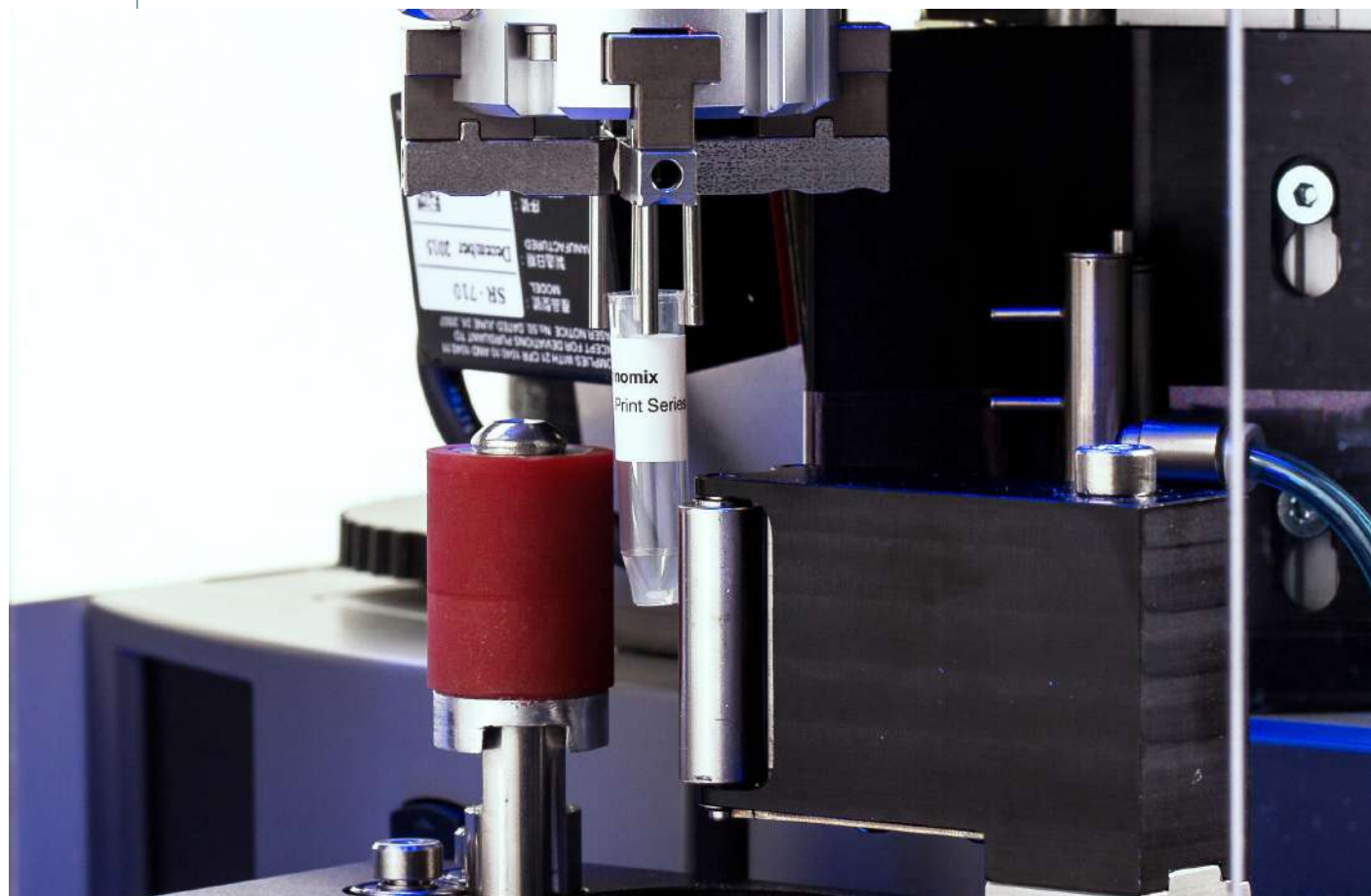
## WE'VE TEAMED UP WITH TRISKELION TO BRING YOU THE TINY-TIM IN THE UNITED STATES.

We are pleased to announce our new partnership with Triskelion, an innovative Dutch contract research organization that developed tiny-TIM to study the availability for absorption of oral (pharmaceutical) compounds. The tiny-TIM is an in vitro system that models the gastrointestinal tract in adults, children, and animals. It is now available for lease and purchase in the United States.



## 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 automation equipment works properly every day of the year. Regardless of your location, our service technicians will install, demo, train, and/or repair your equipment on-site. Simply call or email us to discuss your laboratory's needs.

## NEED HELP?

*We've got you covered.*

Whether you need help placing an order or have a question about a product, our technical experts are here to assist you when you need it most. There are four easy ways to contact us.



724-941-6411



INFO@NBSSCIENTIFIC.COM



NBSSCIENTIFIC.COM



724-941-8662

## CORPORATE SOCIAL RESPONSIBILITY

*Our efforts to promote a more sustainable future.*

At NBS Scientific, we participate in efforts that promote a better, more sustainable world. We also contribute to local and international 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 are able to re-purpose 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, promote 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