## innovative lab solutions

nbs

scientific

collect - prepare - analyze - manage - store your samples





## ABOUT 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 are equipped with our innovative sample collection, sample storage, sample tracking, liquid handling, and lab 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 ten years of experience in the life science industry- you are choosing a trusted partner that understands the scope and significance of your research. That's why we are 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 are part of a startup searching for its first case of tubes or a well-established lab looking for alternative sample storage, liquid handling, or automation products, we are here to help.

## 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.





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



We provide highquality 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.

## 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.

we deliver Jou discover

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### OUr brands

AFYS3G

Basque

Engineering & Science Geneye

GenTegra

Micronic

Novitain

Scinomix

SPL Guard

Vitl



## sample collection



## brands GenTegra

#### RELIABLE, NON-INVASIVE SAMPLE COLLECTION SOLUTIONS THAT ENSURE ACCURATE RESEARCH RESULTS

At NBS Scientific, we offer innovative ways to collect and preserve samples at ambient temperatures. With our sample collection products you can quickly and easily collect and preserve sensitive, valuable samples. The products from GenTegra will allow users to collect and protect DNA and RNA in a dry state. With our Novitain line-up you will be able to seal 13 mm diameter sample collection tubes on a short-term basis.



SAMPLE

**COLLECTION** 

**GenTegra** 

### GENTEGRA DNA

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

#### FEATURES AND BENEFITS

- Can handle extremes of temperature (-80°C to +72°C) during shipment and storage
- Based based on accelerated studies, GenTegra DNA protects DNA for up to 30 years and more at ambient temperature
- Can protect DNA without Humidity controls
- GenTegra-DNA is not hydroscopic and will not absorb water
- Has a shelf life of greater than 3 years stored at room temperatures
- Available in multiple packaging formats: 100 screw cap tubes, 96 well microplates and even bulk formats

## GENTEGRA RNA

Water soluble chemical matrices that protect RNA in dry and liquid state.



- Is able to protect RNA when being shipped for RNA sequencing and when stored in the lab for days
- GenTegra RNA is protecting against RNase activity
- Protects RNA better then when stored on dry ice
- Is able to provide superior RNA sequencing data
- GenTegra RNA is a water soluble
- Has a shelf life of greater than 3-years stored at room temperatures
- Available in multiple packaging formats: 100 screw cap tubes, 96 well microplates and even bulk format

### GENTEGRA RNASSURE Immediate, complete and maximum RNA protection.

### FEATURES AND BENEFITSGENSAVER

- Robust and reliable protection of RNA against all RNases as well as exposure to oxidation
- Inactivates all residual RNase activity carried over from purification process or environmental contamination
- Utilizes GenTegra's proven, patented Active Chemical Protection<sup>™</sup> (ACP) chemistry
- Eliminates the potential that RNA may degrade during every day experimental protocols or due to catastrophic freezer failure
- Can protect RNA for at least 3 days at room temperature (RT) and 2 weeks at 4°C
- RNAssure protected RNA shows no significant change in RNA quality throughout the 4-hour exposure to RT
- Is easily integratable into extraction and purification kits from all major life science manufacturers
- Protects RNA from damage during DNase treatment at the higher temperature of 37°C

## GENTEGRA GENPLATES

Safely store blood, buffy coat and plasma at room temperature.

#### FEATURES AND BENEFITS

- GenPlates utilize GenSaver paper with GenTegra's Active Chemical Protection technology
- Ideal for safely storing whole blood, buffy coat, and plasma at ambient temperature
- Automation friendly, high density 384-microplate 6 mm disc format for biobanking of blood and other biological fluids
- Contains a unique human readable barcode for tracking and retrieval
- Also available with a desktop archival cabinet

GonTe

SAMPLE COLLECTION **GenTegra** 





GREEN

noultair

noultai

## SAMPLENOVITAIN 50-WELL FORMAT RACKLECTIONThe solution for short-term sealing of 13 mm diameter sample collection tubes.

COLLECTION

#### FEATURES AND BENEFITS Positions 50 sample collection tubes in such a way that it is exactly compatible with the Novitain Capcluster-50



- Compatible with automated pre-analytical systems
- <sup>o</sup> Resists chemical solvents and is free of any detectable RNase or DNase contamination

### NOVITAIN CAPCLUSTER-50 A rapid solution for capping 50 racked IVD tubes using the Novitain Manual Capper MC2.

### FEATURES AND BENEFITS

- Ideal and economic solution for the secure short-term sealing of 13 mm diameter sample collection tubes
- Multi-pierceable without losing seal integrity
- Resists chemical solvents and free of any detectable RNase or DNase contamination
- TPE caps in Natural are made out of medically approved material (USP Class VI certificate)

## NOVITAIN MANUAL CAPPER MC2

Sealing sample collection tubes for temporary storage.

- Can seal 50 sample collection tubes at once and operates as a stand-alone device
- With a simple forward or reverse action of the black handle all 50 tubes are evenly capped
- Avoids cross-contamination and assures accuracy of test results
- Does not require adapters and is adjustable in height

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scientific



## sample preparation



#### brands



## PREPARE SAMPLES FOR ANALYSIS WITH COMPACT AND EFFECTIVE BENCHTOP LABORATORY EQUIPMENT

At NBS Scientific, we offer a wide variety of products to prepare samples before analyzing them. There are different pieces of hardware allowing the thawing of samples or to take aliquots without even thawing your sample. In our portfolio, we have a few mixers ready for you and we also have a nifty device that can heat up and mix samples at the same time. Lastly, for homogenizing samples, we offer a desktop homogenizer with a wide variety of beads.

## GENEYE MIMIXER

The combined strenght of heating and mixing.

### GENEYE MIMIXER USES

- DNA/MA sample preparation (e.g. extraction, reverse transcription, restriction digest, denaturation)
- Lysis for extraction of proteins, polysaccharides, lipids and other cellular components
- Enzymatic reaction (e.g. proteinase K digestion)
- Sample transformation
- Sample homogenization
- Cultivation of bacteria and yeast
- Controlled thawing of biological samples and reagents

### GENEYE MIMIXER BENEFITS

- High mixing requency up to 1800 rpm
- Create and store up to 5 user-defined mixing profiles
- Temprature gets spread out evenly across the racks
- Heats from 25 °C to 100 °C withing less then 12 minutes

COMES WITH COVER TO PREVENT CROSS-CONTAIMANTION AND SPILLING

1

SAMPLE PREPARATION

mman

4 geneye

SAMPLE

PREPARATION

## VITL MIXERS

Products with an unrivalled level of sample care, usability and repeatability.



#### CO-MIX

- Provides simultaneous, independently controlled microplate mixing and tube vortexing in one
- Create and store user-defined mixing profiles
- Innovative plate-holding mechanism
- No spill risk
- Visual countdown timer and audible alert for completion of mixing or vortexing
- Adapters for different tube brands and sizes available



VIDE

### THER-MIX

- Accurately mix and heat samples
- Capability to create and store your own mixing profiles
- Interchangeable Heated Modules support various sample tubes
- Unique compact design



- Highly accurate, repeatable sample heating
- Ideal for sample preparation and incubation
- Visual countdown timer and audible alert on completion of heating
- Temperature accuracy +/- 0.1°C
- Heated lid on some Heated Modules gives direct consumable contact

### HOMOGENIZERS A versatile bead beater.

### UPHO HOMOGENIZER

- Developed for both routine samples and samples that are difficult to grind
- Quickly breaks down biological sample types including plant and animal tissue, cells, bacteria and yeast
- High throughput: up to 64 samples at a time
- No contamination between activities
- Works with cryogenic and room temperature samples

### UPHO BENEFITS

- <sup>o</sup> Laboratory friendly: noise less then 65dB
- Versatile: huge range of adapters for different types of tubes available
- Robust: simple and reliable
- Affordable: standard with free adapter and two types of beads

### **OPERATION BENEFITS**

- Bead mill technology
- Easy cleaning procedure
- User friendly interface







Staeneye

## ALSO AVAILABLE:

Beads for the UPHO. We can deliver a wide range of beads, all compatible with the UPHO homogenizer by Geneye. You can choose the material of the beads, which we can offer in ceramic, glass, metal and wolfram steel. Next to material, size is also choosable. We offer beads ranging in size from 0.1 mm to 6.0 mm.



## SAMPLE FROZEN SAMPLE ALIQUOTTERS

**PREPARATION** *For preserving sample quality and streamlining sample processing.* 





### BASQUE CXT353 ALIQUOTTER

- Can aliquot from a wide range of frozen samples
- Can extract multiple aliquots from a single sample
- Both parent sample as the taken aliquots are maintained at temperatures below -80°C via LN2 chilling
- Eliminates the need for a thawing and freezing process
- Equipped with a laser targeting system to precisely select the aliquot
- Prevents cross-contamination and sample carryover by making use of single-use coring probes
- Generates frozen aliquots ranging in size from 10µl to 250µl

### THAWING STATIONS To defrost samples in a controlled manner.



### SPL GUARD - FLORIDA

- ° Controllably thaws samples in a multi rack capacity
- Can be used stand-alone or integrated into a robotized workstation.
- Thawing up to 10 racks in just 9 minutes.
- Thaws in a consistent rate to guarantee the quality of the sample remains the same.
- Thaws all samples evenly

FASTEST DEFROSTING STATION ON THE MARKET



STATISTICS.

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## sample analysis



brands Vitl 🎯

## HIGH QUALITY EQUIPMENT AND CONSUMABLES THAT ARE USED DURING THE ANALYZING PROCESS OF SAMPLES

To analyze samples accurately, NBS Scientific has a special piece of equipment ready for you. We can offer a luminometer to measure the luminescence of biological and chemical reactions.

## LUMINOMETERS

Optimized for biological and chemical luminescence reactions.

### LU-MINI

- Compact and lightweight benchtop luminometer
- Accepts a single tube/vial
- Compatble with 10 -15 mm round tubes/ vials as well as 10 mm square cuvettes
- Different reading modes available, including single/dual point, peak detect and kinetic data collection
- Fast reading time with optional integration phase
- USB connectivity for the data transfer of results
- Free included app for the PC
- Storage capacity for up to 1000 test results
- Intuitive touchscreen available for easy operating



FREE SOFTWARE FOR PC



## sample management







## ENHANCE YOUR SAMPLE MANAGEMENT WITH THESE INNOVATIVE AUTOMATION TOOLS

At NBS Scientific, we supply a comprehensive assortment of innovative tools that improve your way of managing samples. We have tools that mark tubes with lasers, either manual or fully automatic. We also offer devices that can read these codes to quickly track and trace your valuable sample. Want to go a step further and let a machine automatically sort tubes for you? We offer these machines as well. And lastly we offer a wide variety of equipment that is capable of automatically labeling en sorting a wide variety of tubes an vails. And to top this off, most of these machines can be integrated into a fully automated laboratory environment.

### AFYS3G LABWARE MARKING SYSTEMS Manual and automated tube marking.

MANUAL LASER MARKING SYSTEM LAMBDA8 No labels, stickers or ink to mark tubes.

- Mark tubes from 0.30 ml to 15.00 ml
- Engrave any shape, logo, text or sample ID directly onto the surface of a tube
- To ensure absolute traceability of samples
- Position the laser to preferred marking area
- Small benchtop solution



#### **AUTOMATED LASER MARKING SYSTEM LAMBDA576** *The only automated laser marker on the market!*

- Laser etch tubes from a variety of sizes and brands
- No labels, stickers or ink is used to mark tubes
- Can hold up to 6 racks in ANSI/SLAS format
- Markings are resistant against chemicals, mechanical abrasion and temperatures between +100°C and -196°C



SAMPLE MANAGEMENT

## SAMPLE | TUBE HANDLERS

Automatically sort and manage your valuable samples from multiple racks at once.











### MICRONIC HT500 TUBE HANDLER

- Automatically sorting tubes within 96-well format racks
- Cost effective solution
- Semi-automatic linking between rack-ID and rackposition
- Separate safety stop ensures sample/product protection
- Compatible with standard ANSI/SLAS format racks
- Easy-to-operate and userfriendly interface
- Upload pick-lists via usbthumb drive
- Included 1D barcode scanner to select the places of all the racks on the machine
- Large capacity of 20 racks
- Fast operation with 250 tubes per hour
- Works with tubes ranging from 0.30 ml to 1.40 ml
- Compatible with tubes from other brands
- Downloadable CSV file of rack content to upload to your management system

## TUBE HANDLERS

Automatically sort and manage your valuable samples from multiple racks at once.

SAMPLE MANAGEMENT

### MICRONIC HT700 TUBE HANDLER

- Due to the unique 'cassette' design, the Tube Handler HT700 has a small footprint and a large capacity (24 source racks/1-3 target racks)
- By making use of cassettes instead of a platform there is a minimum distance between the sample to be taken and the target rack. This makes sorting faster (sorts 550 tubes per hour)
- The unique closed system guarantees the safety of the user.
- Unique integrated dual (1D rack barcode and 2D tube code) check
- Compatible with 0.50 ml, 0.75 ml, 1.10 ml, and 1.40 ml 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: 560 x 864 x 889 mm













## SAMPLESINGLE TUBE CODE READERSMANAGEMENTFor fast, accurate, and efficient sample identification.

### Tube Reader DT510

**Tube Reader DT300** 

FEATURES	S-YEAR WARRANTY!	
	Scan time: 1 second	Scan time: 1 second
	Dimensions: 70 x 72 x 120 mm	Dimensions: 150 x 40 x 40 mm
	CIS imaging technology	CIS imaging technology
<u></u>	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?**

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.



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## SAMPLE STORAG

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MICRONIC

## 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.



## SAMPLEFULL RACK CODE READERSMANAGEMENTFor fast, accurate, and efficient sample identification.



## DID YOU KNOW?

Every Micronic scanner comes with free, user-friendly Micronic Code Reader Software that's reliable, easy to install, and compatible with LIMS Systems.



# scientific

Micropic Sido

SAMPLE MANAGEMENT

Micronic Side barcode reader
Scan time: 1 second
Dimensions: $230 \times 132 \times 35$ mm
CCD Imaging Technology
ANSI/SLAS barcoded rack compatible
N/A
N/A
1D barcode reader



The Micronic DR700 and DR505 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.

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SCINOMIX

#### SCI-PRINT MP2 PLATE LABELER SAMPLE MANAGEMENT

Semi-automated barcode label printer for microplates.



### SCI-PRINT MP2 BENEFITS

- Increases efficiency and productivity in the lab
- Diagnostics for testing and setting up
- Consistency in labeling
- Small footprint saves valuable space in the lab
- Can print range of standard barcodes including 1D and 2D

### SCI-PRINT MP2 FEATURES

- Prints and applies labels onto a variety of microplates
- Can be used in a manual stand-alone environment
- Can be integrated into a fully automated system
- Meant for benchtop, so has a compact size
- It has a rotating, height-adjusting platform
- Provides the flexibility to print on all sides and two vertical levels of the plate and deep well blocks
- Includes versatile software



## SCI-PRINT VXL TUBE LABELER

A modular tube-labeling system that can label up to 425 tubes per hour.

### FEATURES AND BENEFITS

- Fully automated tube labeling system that is capable of printing and applying labels to tubes
- Throughput of 425 tubes/hour with a 12-position work deck (accommodates up to 1200 tubes)
- Works with tubes ranging from 0.5 ml to 50 ml
- Can be configured to sort racked tubes, receive bulk tubes, uncap/recap, fill and/or scan barcodes
- Ability to handle honeycomb plates and is compatible with Matrix and Micronic 2D vials
- Provides valuable walk away time to attend to other important tasks in the lab
- ° Consistency of label placement on each tube

## SCI-PRINT VX2 TUBE LABELER

Automated tube handling system with configurable solutions.

### FEATURES AND BENEFITS

- Fully automated tube labeling system that is capable of printing and applying labels to tubes
- Throughput of 400 tubes/hour with a 6-position work deck (accommodates up to 600 tubes)
- Works with tubes ranging from 0.5 ml to 50 ml
- Can be configured to sort racked tubes, receive bulk tubes, uncap/recap, fill and/or scan barcodes.
- Ability to handle honeycomb plates and is compatible with Matrix and Micronic 2D vials
- Eliminates human error and repetitive hand injuries that can occur from manual labeling

## ALSO AVAILABLE:

Universal gripper, the ultimate upgrade to the existing VX2 and VXL tube handlers. It's speccially designed for labs working with a variety of different tube diameters. The new gripper allows the user to easily change between tube types (ranging from Matrix-style tubes to 50 mL) without changing any hardware. This new design was driven by customer feedback and saves valuable time in the lab!



scinomix



Scinomix



SAMPLE

MANAGEMENT

## SCI-PRINT SOLO TUBE LABELER

Semi-automated tube labeling system.



### FEATURES AND BENEFITS

- Prints and applies labels onto a variety of microplates
- Can be used in a manual stand-alone environment
- Can be integrated into a fully automated system
- Meant for benchtop, so has a compact size
- It has a rotating, height-adjusting platform
- Provides the flexibility to print on all sides and two vertical levels of the plate and deep well blocks
- Includes versatile software

## SCINOMIX RETROS TUBE SORTER

Benchtop equipment capable of sorting tubes, preparing racks and validating samples.



- Fully automated tube sorter
- Has a high throughput with up to 1200 tubes per hour
- Capable of handling different types of tubes with the same system
- Eliminates human error
- Increases productivity and efficiency in the lab by providing valuable walk-away time in the laboratory
- Compact bench top footprint saves valuable space in the lab

## SCINOMIX VXI BULK FEEDER

Automatically feeds tubes into a automated labeler for efficient labeling

### FEATURES AND BENEFITS

- Pairs with Scinomix VX labelers to bulk process tubes
- Eliminates hand loading of tubes into racks
- Adapts to a wide range of tube types and sizes and handles tube diameters from 8 mm to 28 mm. It also handles internally and externally threaded tubes as well as capped and uncapped tubes
- Has a high throughput with up to 400 tubes per hour
- With a camera, optical technology is used to detect tube orientation to aid in the delivery for labeling and racking

## SCINOMIX VXQ BULK FEEDER

Designed to convey tubes to the VX Series for labeling, filling and/or racking.

### FEATURES AND BENEFITS

- Pairs with Scinomix VX labelers to bulk process tubes
- Compatible with a range of tubes from 0.5 ml to 15 ml (the collar of the tube must be wider than the body of the tube)
- Has a high throughput with up to 400 tubes per hour
- Easily create, store and change multiple tube definitions with the touch of a button
- An optional 2D barcode scanner can be added to the systems for verification or to reprint the barcode on the label

## SCINOMIC RAPIDCAP2

High-throughput capping and decapping in your production lab environment.

- Designed to cap and decap inexpensively priced cryovials between 0.5 ml and 2.0 ml in just 4.75 seconds per tube
- Factory configured system comes ready to go and configured to user's needs
- Small, bench-top device to free up valuable space in the lab
- Cap color sensor/detection adds extra layer of quality control
- Integratable into third-party automation
- Easy to use software







SAMPLE

MANAGEMENT

INNOVATING AUTOMATION

## SCI-PUMP PERISTALTIC PUMP

A compact peristaltic pump for continuous flow applications.



### FEATURES AND BENEFITS

- A small bench-top Peristaltic Pump
- An accessory to the Sci-Print VX2 or Sci-Print VXL
- A great solution for dispensing volumes starting at 50 ul or greater
- Is best for dispensing many tubes of the same reagent type
- Aqueous fluids are most commonly used
- Provides highly reproducible flow rates, with minimum pulsation
- It can be used for bulk dispensing or reagent filling
- The eight-roller unit features tubing and nylon barbs for long life of all fluid contact surfaces

## SCINOMIX BB DROPPER

Commonly used in a variety of agricultural labs for bead beating and homogenization.



- Designed to dispense metallic BBs into a wide variety of microplates, deep well blocks, and tube blocks
- Microprocessor program allows for automatic operator prompting, device control, and error checking
- User changeable cartridges allow for various BB sizes
- Hopper capacity ranges from 3,800 to 20,000 BB's depending on BB size
- Backlit LCD display to prompt user and indicate errors
- Operating height of the dispensary mechanism is adjustable to accommodate various plate/block heights (up to 80 mm)

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## sample storage



## brands MICRONIC VILL CON LIFE SCIENCE SOLUTIONS

### MICRONIC LABWARE

- Manufactured and assembled in a certified Class 7 clean room environment
- 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)</li>
- Complies with Class 1 CE label (EU directive 98/79/EC is the leading standard). Material Safety Data Sheets available for all products
- Upon request, products can be supplied gamma irradiated or ethylene oxide treated



\*For -80°C storage of the 2.00 ml tube it is recommended to always use a rack with cover.

### TUBESTRIP-8

AMBER TUBES

TUBES FOR EVERY APPLICATION

SNAP TUBES

#### SAMPLE EXTERNAL THREAD TUBE CHART STORAGE Overview and specifications. 0.30 ml 0.40 ml 0.75 ml 0.80 ml 1.00 ml 1.10 ml 1.40 ml 2.00 ml 3.50 ml 4.00 ml Micronic Micronic Micronic Micronic Micronic Micronic Micronic Micronic Micronic Storage Rack Micronic 24-2 96-1 96-1 96-2 96-3 48-1 96-3 96-4 96-5 48-4 Inner Tube V- or Vr-V-bottom V-bottom V-bottom Flat Bottom V-bottom **V-Bottom** V-bottom Flat Bottom Flat Bottom Shape bottom Working 0.30 ml or Volume with 0.40 ml 0.60 ml 0.85 ml 0.93 ml 3.35 ml 0.75 ml 1.11 ml 1.55 ml 3.40 ml 0.22 ml Screw Cap 2D Coded Yes Non-Coded Yes No Yes No No Yes Yes No No No **Outer Diameter** 9.0 mm 13.0 mm 9.0 mm 9.0 mm 9.0 mm 16.3 mm 13.0 mm 8.8 mm 8.8 mm 8.8 mm **Tube Height** 16.4 mm 21.8 mm 30.0 mm 34.8 mm 16.0 mm 41 mm 48.0 mm 63.0 mm 30.0 mm 48.0 mm

19.7 mm

Yes

No

Vapor Phase

LN2

44.6 mm

Yes

No

Vapor Phase

LN2

51.5 mm

Yes

No

Vapor

Phase LN2

\*For -80°C storage of the 2.00 ml tube it is recommended to always use a rack with cover.

#### SUPERIOR TUBE FEATURES High-quality tubes in a wide range of sizes and options.

25.3 mm

Yes

No

Vapor Phase

LN2

33.5 mm

Yes

No

Vapor Phase

LN2

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

With Screw Cap

**Minimum Stor-**

**Twist-lock** 

**Snap Tube** 

age Temp.

19.9 mm

Yes

No

Vapor Phase

LN2

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



The screw cap tube (internal) has a single turn thread to easily open/close tube.

38.3 mm

Yes

No

Vapor Phase

LN2



Black code surface cannot be separated from tube due to a unique injection molding technique.



Inner V-bottom

66.5 mm

Yes

No

-80°C\* (Use

rack with

cover)



33.5 mm

Yes

No

Vapor Phase

LN2

51.5 mm

Yes

No

Vapor Phase

LN2

Inner U-bottom for maximum working volume.



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

### SAMPLE STORAGE



1111

20000

### FEATURES AND BENEFITS OF HYBRID TUBES

- Includes 2D Data-Matrix code, 1D barcode, human readable code, and blank space for own ID
- 1D and 2D barcodes laser-etched onto tube
- White code surfaces permanently on tube due to a unique injection molding technique
- Triple-start thread ensures optimal seal quality for long-term storage

www.nbsscientific.dk

### SAMPLE SCREW CAPS

**STORAGE** Secure seal for ultra-low temperature storage.



- Available in 12 different colors
- Ideal for storage in ultra-low temperatures
- Unique lock when sealed prevents overturning of cap
- Cap optimized for automated equipment

### SCREW CAPS FOR INTERNAL THREAD TUBES

- High-quality 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 and manual handling because 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
- Automation friendly

### SCREW CAP IG



- Optimized for automation
- Has a Cap height of only 5.8 mm
- Improved pattern for extra strong grip
- Newly designed lead-in on top of the Screw Cap ensures a better tube placement


# PUSH CAPS

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

#### TPE CAPCLUSTERS

- Capclusters cap 96 tubes at once before plastic backing is removed to keep tubes separated for future use
- Compatible with 96-format internally and externally 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 and are arranged on a nonremovable backing to keep tubes together once capped
- Compatible with 96-format internally and externally threaded tubes
- Available in natural and 7 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 9 different colors
- <sup>o</sup> Use for samples stored in temperatures as low as -40°C

#### TPE LYO CAPS



Specially developed for lyophilization process.

#### EVA PUSH CAPS



Economical way to seal sample storage tubes.

#### TPE AUTO DECAPPER



Removes 96 push caps in 8 seconds.

SAMPLE STORAGE



# SAMPLE STORAGE RACKS

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

IDEAL PROPERTIES FOR ULTRA LOW TEMPERATURE STORAGE	138-well HD rack	96-well ULT rack	48-well ULT rack	24-well ULT rack
Tube Compatibility	Compatible with tubes from 0.30 ml to 0.80 ml in size	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	6 rows of 13 & 5 Rows of 12 tubes (138 tubes total)	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	Polycarbonate
Dimensions	127,8 mm x 85,5 mm	127,8 mm x 85,5 mm	127,8 mm x 85,5 mm	127,8 mm x 85,5 mm
Resistant to Chemical Solvents	Yes	Yes	Yes	Yes
Minimum Storage Temperature	Vapor Phase LN2 to +100°C	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.

LoboRack-96

RoboRack-96

ComoRack-96

	Employee and	A -	
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	127,8 mm x 85,5 mm	127,8 mm x 85,5 mm	127,8 mm x 85,5 mm
Resistant to Chemical Solvents	Yes	Yes	Yes
Minimum Storage Tem- perature	Vapor Phase LN2 to +140°C	Vapor Phase LN2 to +140°C	Vapor Phase LN2 to +140°C

#### **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 are 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, DT510 Tube Reader, DT300 wireless scanner, and manual decapping tools.



STARTER PACK STANDARD Includes 10 racks of tubes, caps, DR505 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.

## SAMPLE STORAGE

#### SAMPLE MICRONIC PUSH CAP CAPPER CP400 STORAGE A manual, user-friendly way to cap 96 push cap tubes in one action.



#### FEATURES AND BENEFITS

- Caps 96 push cap tubes with one action
- Compact and robust manual device
- Seals full and partially full racks with complete range of Micronic TPE and EVA style caps
- Caps tubes up to 1.4 ml in all ANSI/SLAS format racks up to 48 mm 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 push cap 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 RECAPPER CS100 Caps and decaps individual screw cap tubes.

# AUTOMATIC PUSH CAP (DE)CAPPERS

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

#### **MICRONIC PUSH CAP DECAPPER CP620** *Decaps an entire rack of push cap tubes in 8 seconds.*

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

#### MICRONIC PUSH CAP CAPPER CP600

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

- Works on full and partially-full racks of tubes
- Caps an entire rack of 96 tubes in an average of 7 seconds (depending on tube height)
- Built with controlled pressure system for an even capping result
- CP600 works with tube sizes up to 1.40 ml (48 mm) and CP610 works with tube sizes up to 2.50 ml (86 mm)
- Compatible with complete range of Micronic
   96-format internal thread tubes

# AUTOMATIC SCREW CAP RECAPPERS

User-friendly, automatic recapping equipment for screw cap tubes.

### SIGMA RECAPPER BY AFYS3G

A screw cap recapper for every laboratory environment

- (De)caps screw capped tubes within less than 30 seconds
- Serves 96-well racks, 48-well racks and 24-well racks
- Optimized for integration into a fully automated laboratory environment
- Compatible with ANSI/SLAS standard racks
- Easy to use interface allows users to select the type of labware they want to use



MICHONIC

SAMPLE STORAGE MICRONIC

#### SAMPLE MICRONIC SCREW CAP RECAPPER CS500 TORAGE A handheld, automatic device that caps, decaps, or recaps an entire row of tubes in 5 seconds.

WINNING

DESIGNS!



#### 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

- 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
- Precise torque value for optimal sealing quality

# MICRONIC DOCKING STATION

The Semi-automated addon to the CS500 capping series.

#### FEATURES AND BENEFITS

- Turns any capper of the CS500 into a semi-automated system
- Works with 96-well, 48-well and 24well format sample storage tubes
- Can cap, decap or recap a row of tubes in less than 5 seconds and a whole rack in only 1 minute
- Compact and can be placed on any desktop
- Caps tubes efficiently
- Each screw cap is reproducibly tightened securely and uniformly
- Minimizes cross-contamination

#### MICRONIC SCREW CAP RECAPPER CS700 An automatic device that caps, decaps, or recaps an entire rack of tubes in less than 30 seconds.



#### FEATURES AND BENEFITS

- 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 6.0 ml) and tubes from other brands
- No adaptors required
- Optional sensor cap detection
- Operates stand-alone or in a fully automated environment

# VITL VARIABLE TEMPERATURE SEALER

Variable temperature heat sealer for a wide range of microplates.

#### FEATURES AND BENEFITS

- Designed to deliver consistent sealing in low to medium throughput laboratories
- User-variable time and temperature settings via an intuitive keypad
- Unique, ergonomic lever action, specifically designed to avoid repetitive strain injury
- One-time seal with uniform heat distribution meaning there is no need to rotate or reseal
- Warms up within minutes (170°<10mins)</li>



# VITL MICRO TS HEAT SEALER

A compact, fixed temperature heat sealer for PCR plates and microplates.

#### FEATURES AND BENEFITS

- Space saving design with a very small footprint
- Lightweight (only 4 kg)
- Fast warm up time (<10 mins)
- LED to indicate when the MicroTS is at its pre-set sealing temperature



# DID YOU KNOW?

Vitl offers a range of foil and film microplate heat seals which are designed for sealing various plate formats, providing optimum protection against sample loss through evaporation making them ideal for long-term storage. The seals are colour coded for easy identification and the seals have a 'This way up' marking.

# SAMPLE STORAGE

# TECHNICAL SERVICE

Preventative maintenance plans 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 have 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 three easy ways to contact us.





INFO@NBSSCIENTIFIC.DK



NBSSCIENTIFIC.DK

#### **CORPORATE SOCIAL RESPONSIBILITY** *Our program reflects our commitment to a better world.*

At the core business of NBS Scientific, Corporate Social Responsibility (CSR) plays an important role. Our CSR program focusses on three fundamental elements: the well-being of our employees (People), sustainability (Planet) and social commitment (Profit). We pursue ethical relationships with our employees, customers and suppliers, participate in efforts that promote a better, more sustainable world and contribute to local and national organizations that advocate for the health and welfare of animals and human beings. Listed below are the initiatives we have implemented in our company. This is also outlined in our quality management system that is certified to ISO 9001-2015.



#### WELL-BEING OF OUR EMPLOYEES This is what we do to help our employees to stay healthy and motivated.

- Make sure employees use their vacation days to keep an optimum work/life balance
- Regular activities to keep up the team spirit
- Create an open and informal atmosphere to stimulate new ideas
- ° Offer trainings and courses to develop talents further

#### **SUSTAINABILITY** *This is what we do for a better, more sustainable world.*

- Keep sustainability in our mind with every decision that we make
- Work with suppliers that have the same focus on sustainability
- Offer products to customers that promote sustainability (e.g. refills)
- The office runs completely on green energy
- Reduce energy usage by adapting the office light plan
- Focus on digital communication instead of print (if so, recycled paper is used)
- Our sales managers drive cars with low CO2 emission (A-label)

#### **SOCIAL COMMITMENT** *This is how we are socially involved.*

- Support several local and national charities, such as the Dutch Cancer Fund and Alpe D'HuZes
- Garden maintenance is done by 'Concern voor Werk', a local initiative that helps people get back to work
- <sup>o</sup> Offer work placements to students as part of their studies

# OUR BRANDS

Learn more about the brands we love to work with.



#### EVENTS, TRADE SHOWS & WEBINARS Come meet our team or get a live demonstration.

Throughout the year NBS Scientific has different stands on the most represented trade shows & exhibitions of the Life Science market. We aim to show our latest product innovations and give live demonstrations of how our products can enhance your laboratory environment.

Next to this we host several webinars and online demonstrations of our products and interesting topics during the year.

Wish to know more about our upcoming events?

Scan the QR code for an overview of upcoming event you can find us on!



# SOCIAL MEDIA & NEWSLETTER

Stay up to date with our latest product innovations by connecting us.



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