



# innovative lab solutions

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're 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 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 automation products, we're 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.

### 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.

## 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  
you discover

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## our brands

AFYSI3G

basque

CAPP

GenTegra

MICRONIC

novitain

PFEIFFER

ritter  
MEDICAL

SPL GUARD

Vitl  
LIFE SCIENCE SOLUTIONS

we deliver  
you discover



# sample collection



brands

**GenTegra**

**novitain**

## 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 & RNA samples and even store them at room temperature for a limit time. The collection of Novitain products will allow you to temporary store your valuable samples after they have been collected.

## GENTEGRA GENSAVER 2.0

*Collection of DNA and small molecule metabolites from dried blood spots.*

### FEATURES AND BENEFITS

- Available in GenSaver 2.0
- Collection of DNA from all forensic sample types
- GenTegra-DNA Active Chemical Protection matrix is incorporated
- Superior DNA protection at ambient temperatures
- Compatible with direct PCR protocols- no clean-up required and no PCR inhibition
- Manufactured to ISO 18385 compliance – no human DNA contamination
- Available in 1, 2, and 4 spot formats
- Color changing formats are available for collection of clear samples such as saliva



COLLECTION  
CARDS



## GENTEGRA BIOSAMPLE TFN™ CARDS

*Reliable and reproducible sample collection.*

### FEATURES AND BENEFITS

- Designed for micro-volume sampling, transport and ambient storage of biological sample
- Even and uniform sample distribution
- Made of white and pure absorbent filters for reproducible collection
- Contains no wet-strength additives or chemicals, minimizing possible interferences for reliable analytical results
- Rigorous quality control and manufacturing according to ISO 13485:2016 and ISO 9001:2015







STABILITY  
REAGENTS

## GENTEGRA DNA

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

**GenTegra**



### 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 hygroscopic 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 GENPLATES

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



### FEATURES AND BENEFITS

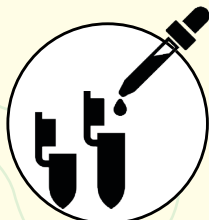
- GenPlates utilize GenSaver paper with GenTegra's Active Chemical Protection technology
- Ideal for safely storing whole blood, buffy coat, and plasma at ambient temperature
- Automation friendly, high density 384-microplate 6-mm disc format for biobanking of blood and other biological fluids
- Contains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

## DID YOU KNOW?

We now offer Gentegra RNA products that allow you to store and protect your valuable samples at every stage.



**Tissue collection**  
> RNAAdvantage



**Sample Purification**  
> RNAAssure



**Shipment & Storage**  
> GenTegraRNA

## GENTEGRA RNADVANTAGE

*Better protection for RNA in fresh tissue samples.*

### FEATURES AND BENEFITS

- Provides significantly better protection for the RNA in tissues using RIN values as a measure of RNA quality
- Consistently yields RNA with RIN scores that are  $\geq 1$  better than RNAlater.
- RIN values  $\geq 7$  for most tissues
- Best protection at 7 and 14 days at room temperature
- No rtPCR or library prep inhibition
- Ensures reliable RNAseq data
- Makes field collection of tissue samples easier



STABILITY  
REAGENTS



**GenTegra**

## GENTEGRA RNASSURE

*Immediate, complete and maximum RNA protection.*

### FEATURES AND BENEFITS

- 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™ (ACP) chemistry
- Can protect RNA for at least 3 days at room temperature (RT) and 2 weeks at 4 °C



## GENTEGRA RNA

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

### FEATURES AND BENEFITS

- Is able to protect RNA when being shipped for RNA sequencing and when stored in the lab for days
- GenTegra RAN is protecting against RNase activity
- Protects RNA better than when stored on dry ice
- Is able to provide superior RNA sequencing data
- GenTegraRNA is a water soluble





novitain

## NOVITAIN 50-WELL FORMAT RACK

*The solution for short-term sealing of 13mm diameter sample collection tubes.*



### FEATURES AND BENEFITS

- Positions 50 sample collection tubes in such a way that it is exactly compatible with the Novitain Capcluster-50
- Light-weight and has an open well side design to ensure equal temperature for all tubes during cooled storage
- Compatible with automated pre-analytical systems
- Resists chemical solvents & is free of any detectable RNase or DNase contamination

## NOVITAIN CAPCLUSTER-50

*A rapid solution for capping 50 racked tubes using the Novitain Manual Capper MC2.*



### FEATURES AND BENEFITS

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

## NOVITAIN MANUAL CAPPER MC<sub>2</sub>

*Sealing sample collection tubes for temporary storage.*



### FEATURES AND BENEFITS

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



REQUEST YOUR FREE DEMO NOW  
CONTACT US AT: [INFO@NBSSCIENTIFIC.BE](mailto:info@nbsscientific.be)



we deliver  
you discover



# liquid handling



brands  
**CAPP**  
**ritter**  
MEDICAL

## OUR LIQUID HANDLING TOOLS AND EQUIPMENT ARE DESIGNED TO DELIVER PRECISION CONTROL FOR SAMPLES

The range of products for Liquid Handling is quite comprehensive at NBS Scientific. We provide several high-quality mechanical pipettes, electronic pipettes and motorized pipette controllers. To complete our pipette solution we offer a range of pipette tips: filtered, racked, individually wrapped or in bulk. We also provide robotic tips, which are custom made for the most common liquid handler brands on the market. Each individual tip is guaranteed to be made with the highest quality in mind.

## CAPP BRAVO PIPETTE

*Combines lightweight ergonomic design with the latest innovations in pipetting.*

### FEATURES AND BENEFITS

- Available as variable volume pipette (9 volume ranges starting from 0.1µl up to 10mL) as well as a fixed volume pipette
- Constructed of the highest quality autoclavable materials
- With built-in oversized indicator, which makes volume monitoring and precise adjustment easy
- With metal shafts and double o-rings to increase the durability of the pipettes



MECHANICAL  
PIPETTES

CAPP

## CAPP AERO<sub>96</sub> PIPETTE

*The multichannel pipette that guarantees accuracy and precision across all channels.*

### FEATURES AND BENEFITS

- Available in 8- and 12-channel pipettes
- Contains lightweight metal components and stainless steel pistons
- Has a unique construction which ensures extremely easy tip mounting and ejection
- Lower part of each pipette is slightly bent in order to eject only 2 tips at a time. This happens so smoothly, as if all 8 or 12 tips were ejected in one take
- Each tip cone is made of anodized aluminum and has double O-rings
- Incredibly robust and fully autoclavable, offering easy maintenance



## CAPP AERO<sub>384</sub> PIPETTE

*The ideal multichannel pipette for 384 well plates.*

### FEATURES AND BENEFITS

- Available in 16, 24, 32, 48 and 64 channel pipettes
- Quick and high precision pipetting of 16, 48, or 64 wells at once or one row at a time with the 24 and 32-channel pipettes
- The perfect tool for liquid transfers from reservoir and deep well plates into 384 well plates
- Lightweight ergonomic construction and enabling consistent and reliable liquid transfer
- Recommend to use with Capp ExpellPlus pipette tips





MECHANICAL  
PIPETTES

**CAPP**  
**ritter**  
MEDICAL

NOW WITH  
ECO-FRIENDLY  
PACKAGING



## CAPP ECO PIPETTE

*The most sustainable pipette on the market.*



### FEATURES AND BENEFITS

- Single-channel pipette that is carefully manufactured to exacting standards to extend its usable life
- Supplied in premium quality, biodegradable packaging
- Autoclavable pipettes which are truly accurate and truly robust
- With each critical component intentionally designed and manufactured from premium quality metals
- Well-thought-out metallic design of these premium quality laboratory pipettes minimizes the chances of damage resulting from accidental drops
- Features a super-smooth piston stroke and an exceptionally low thumb load for aspiration and blow-out
- Featuring an exchangeable counter mechanism which allows users to quickly switch between different volume capacities without changing their single-channel pipettes.

## RITTER RIPETTO PRO

*Lightweight and reliable.*



### FEATURES AND BENEFITS

- Flexible: work with 12 tip sizes, 10 volume adjustments and 120 program steps
- Independent: pipette is maintenance free and does not need any additional resources such as batteries or power supply
- Handy: perfect ergonomic design makes an easy and comfortable use possible
- Clear: volume adjustments and dosing are shown in vision panel on pipette
- Resistance: shows a high resistance towards a broad range of chemicals



## CAPP CAPPTRONIC PIPETTE

*Optimize your serial work in an ergonomic and user-friendly way.*

ELECTRONIC  
PIPETTES



CAPP

### FEATURES AND BENEFITS

- One of the easiest electronic pipettes to set up and use
- Available in single channel and multi channel
- Up to nine individual protocols can be stored thanks to the extensive memory capacity
- Next to standard pipetting, you can also use it for reverse pipetting, multi dispensing, mixing and sequential dispensing
- Supplied with one long-life and easily exchangeable lithium battery



## CAPP CAPPMAESTRO PIPETTE

*Become a maestro in pipetting skills.*

### FEATURES AND BENEFITS

- Optimize your serial pipetting work with advanced functions such as multi dispensing, dilution and mixing
- Fully coloured OLED display
- Easily store your favorite protocols
- equipped with long lasting lithium batteries enabling many hours of uninterrupted work
- Calibration and password setting functions are also available on CAPPMaestro
- The ability to use the pipettes while they are charging





PIPETTE  
CONTROLLERS

CAPP

## CAPP PIPETTE CONTROLLER

*Lightweight yet powerful pipette controller.*



ALSO FITS  
THE CAPP  
SEROLOGICAL  
PIPETTES

### FEATURES AND BENEFITS

- Light and fatigue free: weighs only 167g
- Including a lithium battery which enables you up to 12 hours of continuous use
- Can be used while charging and has a patented Electronic Brake System
- Powerful instrument, filling a 50mL pipette in less than 10 seconds
- Fully adjustable speed-setting as well as gravity delivery and blow-out dispensing modes are available

## CAPP TEMPO PIPETTE CONTROLLER

*Aspirate the required volume in a fast and precise way.*

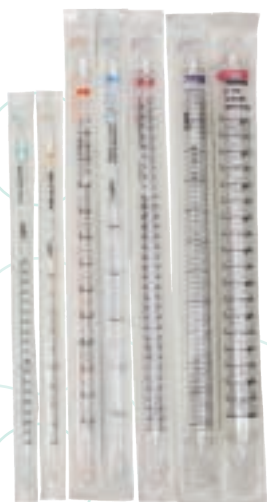


### FEATURES AND BENEFITS

- Has a unique and patented Electronic Brake System (EBS)
- Has a LED display, showing the aspiration and dispensing speed as well as the remaining battery life status
- It turns off automatically after 20 seconds of non use to conserve the battery
- Contains a Lithium battery, which fully loaded provides you 8 hours of continuous work

## CAPP HARMONY SEROLOGICAL PIPETTES

*Designed for accurate and rapid fluid dispensing.*



### FEATURES AND BENEFITS

- Sterile, pyrogen free and cotton plugged for a variety of liquid handling applications
- Reverse graduations show volume removed or remaining on all pipettes larger than 1ml
- Each pipette has effective filter barrier to prevent liquid from overflowing
- Designed to fit all available motorized pipette controllers in the market

## RITTER RITIPS REGULAR

*The classic range of dispenser tips.*

### FEATURES AND BENEFITS

- Available in eight classic sizes which include also the in-between sizes 0.05 ml, 1.25 ml and 12.5 ml
- Uses a direct displacement method, which allow them to work well for infectious and volatile liquids
- The fluid never will get in touch with the instrument which avoids any contamination
- Also available in bioclean® grade (single sealed and sterilized) version
- Are suitable with: Ripette®, Ripette® pro, Multipette® 4780, Handrop, Minilab 100, Minilab 101, Minilab 201, Distriman®, Repetman®, StepMate, EasyStep, EasyStep electronic, RepeatOne®



PIPETTE  
TIPS

**ritter**  
MEDICAL

## RITTER RITIPS EVOLUTION

*Universal dispenser tips for a variety of steppers.*

### FEATURES AND BENEFITS

- All nine sizes come with a color-coded adapter for fast identification of the correct tip
- Easy and highly precise dosing, even in low volume applications
- Reliable and repeatable results through automated, individual tests of every tip
- Each size is available in single wrapped bioclean quality





PIPETTE  
TIPS

CAPP

## CAPP PIPETTE TIPS

*For various applications and dosages.*

### BULK PIPETTE TIPS

- Available in self-standing and self-sealing plastic bags
- Easy identification with label and batch number
- Cost saving solution

### FILTER TIPS

- Prevent cross contamination in critical applications
- Designed with Premium filter, with controlled pore size, no use of additives and dimensional consistency
- For molecular, clinical and life science use

### INDIVIDUALLY WRAPPED TIPS

- Ensure sterility for every single pipetting cycle
- Free from Endotoxin, DNase, RNase and PCR inhibitor
- Universally compatible with almost all pipette brands

RELOAD  
SYSTEM  
AVAILABLE!

### RACKED PIPETTE TIPS

- Manufactured with superb quality Swiss injection-molds
- Compatible with Capp Bulk tips and Capp Reload system
- Racks are available in standard Expell, as well as in ExpellPlus low retention quality
- Racks are autoclavable
- Available in different lengths within the same volume range
- Smooth inner surface minimizes sample binding

### PACKAGED IN CARDBOARD BOXES

- Boxes are recyclable
- Reduces the pollution of the environment
- Great alternative to standard plastic racks
- Packed in space-saving dispenser towers with very little space requirements



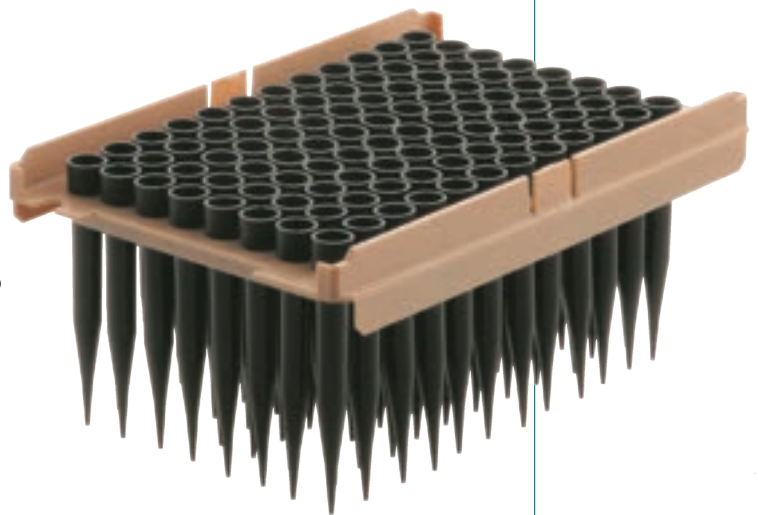


# RITTER ROBOTIC TIPS

*Precision pipette tips suitable for robotic systems.*

## FEATURES AND BENEFITS

- Tips have a high accuracy and low retention
- Small volumes can be dosed with high precision and without contamination
- Available as 'Conductive Tips' and 'Clear Tips' and in 10 different sizes
- The conductivity of the black knights enables the system to recognize the filling height.
- Several quality controls in manufacturing process to guarantee quality
- Made from pure Polypropylene (PP)
- Tested and produced in cleanroom conditions
- Free of DNase, RNase, ATP and endotoxins
- Compatible with liquid handling systems of the brands Hamilton, Tecan, Qiagen, Olympus and Dynex
- Shipped vacuum sealed



PIPETTE  
TIPS

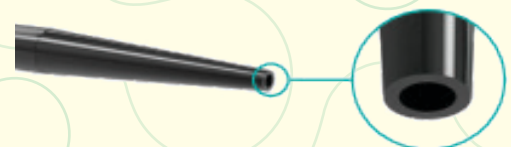
**ritter**  
MEDICAL

AVAILABLE AS  
CLEAR AND  
CONDUCTIVE TIPS



## MORE ABOUT THE WIDE BORE TIP:

Ritter Medical offers now new wide bore robotic tips for gently handling blood molecules in order not to destroy the cell structures during pipetting. These pipette tips have been developed with a 50% wider opening through which particularly viscous samples such as blood plasma can be pipetted gently. The wide opening of the tip reduces the flow resistance of viscous samples and thus protects sensitive cells. This robotic tip is in particular most suitable for cell cultures, blood samples, macromolecules or oils.



we deliver  
you discover



# sample preparation



brands

CAPP

Vital  
LIFE SCIENCE SOLUTIONS

basque  
ENGINEERING SCIENCE

SPL GUARD

## 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. We also offer a wide variety centrifuges, mixers, shakers and vortexers. To clean your ELISA plates we offer plate washers. Lastly, we have mini incubator available, which is easily installed on any laboratory bench and is easily moveable.

# CAPP CENTRIFUGES

*Designed with ultimate user security in focus.*

CENTRIFUGES



CAPP

## FEATURES AND BENEFITS

- Ultra quiet operation, also at the maximum speed
- Suction pads for assured stability during operation
- Unique electronic safety break system for protection of the user
- With brushless DC motors, which are maintenance free
- Intuitive user interfaces
- 2-year warranty

VERY  
COMPACT  
DESIGN!



**CLINICAL CENTRIFUGE**  
*A powerful blood separator.*



**MINI CENTRIFUGE**  
*Easy to use and high performance centrifuge.*



**MICRO CENTRIFUGE**  
*Extremely quiet.*



**REFRIGERATED CENTRIFUGE**  
*For molecular and cellular applications.*



**SWING-OUT CENTRIFUGE**  
*Operates at a variable speed.*





SHAKERS & MIXERS

CAPP

## CAPP SHAKERS AND STIRRERS

*A range with unique user-friendly and user-safety features.*



3D SHAKER



MICROPLATE SHAKER



VORTEX MIXER



HOTPLATE STIRRER



PLATFORM SHAKER

### SPECIFICATIONS OF CAPPRONDO BENCHTOP EQUIPMENT

- Large range available with different features
- Extremely robust and designed for extended runs
- Very quiet, even at maximum speed
- Extremely small footprint
- Large displays and intuitive interfaces

### OTHER CAPPRONDO EQUIPMENT

- Magnetic Stirrers
- Vortex Mixers
- Microplate Shakers
- 3D Shakers
- Platform Shakers
- Hot Plate Stirrers
- Blood Mixer Rollers
- Tube Rotators
- Magnetic Stirrer Hot Plates



## CAPP BLOOD MIXER ROLLERS

*The ideal digital tube roller mixer for processing blood and other viscous liquid samples.*

SHAKERS & MIXERS



CAPP

### CRR-o8X TUBE ROLLER

- Equipped with a Brushless DC motor
- Quiet and maintenance free operation
- Perfect for extended runs
- Store up to 15 blood tubes of 7mL
- Operates by rocking and rolling motion, ensuring throughout mixing
- Programmable pulse mode available
- Detachable and autoclavable rollers
- Rollers have a length of 33cm
- Build in timer setting up to 99 minutes
- Up to 9 programmable user protocols



## CAPP MICROPLATE MIXER

*Provides thorough, simultaneous mixing.*

### THOROUGH MIXING OF 4 PLATES AT THE SAME TIME

- Provides thorough, simultaneous mixing in up to 4 individual microplates
- Compatible with the majority of commonly used skirted microplates
- Ensures ultimate mixing performance due to it's 3mm orbital motion movement
- Equipped with a brushless DC motor
- Maintenance free
- Ideal for extended runs
- Programable for mixing in time interval from 1 – 999 minutes, or infinite mode
- Takes minimum benchtop space
- Integrated digital display
- With rubber O-rings, which provides the shaker ultimate grip for all 4 plates
- The loading and unloading and accessing of the plates can be done without any effort





SHAKERS &  
MIXERS



## 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 & sizes available



### 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



### FLEXI-THERM

- Highly accurate, repeatable sample heating
- Ideal for sample preparation and incubation
- Visual countdown timer and audible alert on completion of heating
- Temperature accuracy  $\pm 0.1^{\circ}\text{C}$
- Heated lid on some Heated Modules gives direct consumable contact

## CAPP SPIN COLUMNS

*A game changer for DNA/RNA purification.*

### FEATURES AND BENEFITS

- Separate, isolate, and purify biomolecules
- A simple workflow that results in exceptional quality
- Eliminate the need for molecular biology laboratories to spend a lot of money to get high-quality biomolecules for their diverse use cases
- Manufactured in a two-part system from a premium-grade of polypropylene
- Consists of a filter tube (0.8 mL) with a selection of filter membrane options as well as a receiver tube (1.5/2.0 mL)
- Uses the latest silica-based filtration membrane technology to bind nucleic acids with up to 99.99% efficiency



CENTRIFUGE  
TUBES



CAPP

## CAPP BLUCAPP CENTRIFUGE TUBES

*High Quality and leak-proof conical centrifuge tubes.*

### FEATURES AND BENEFITS

- Available in 15ml and 50ml
- Made of high quality polypropylene
- 50ml tubes are available as self-standing centrifuge tubes (skirted) and non-skirted
- Can be sterilized by autoclaving in the temperature of 121°C for 20 minute
- The leak proof caps of BluCAPP 15 mL conical tubes have large ridges, providing the optimal grip when wearing gloves
- Is able to endure the centrifugation force of 17.000 RCF
- Contain a clear and easy to read graduation marks and a large writing area (20x50mm)
- BluCAPP centrifuge tubes 15 mL come sterile, packed in bags of 25 pcs





FROZEN SAMPLE  
ALQUOTTERS

## BASQUE CXT<sub>353</sub> FROZEN SAMPLE ALIQUOTTER

*For preserving sample quality and streamlining sample processing.*

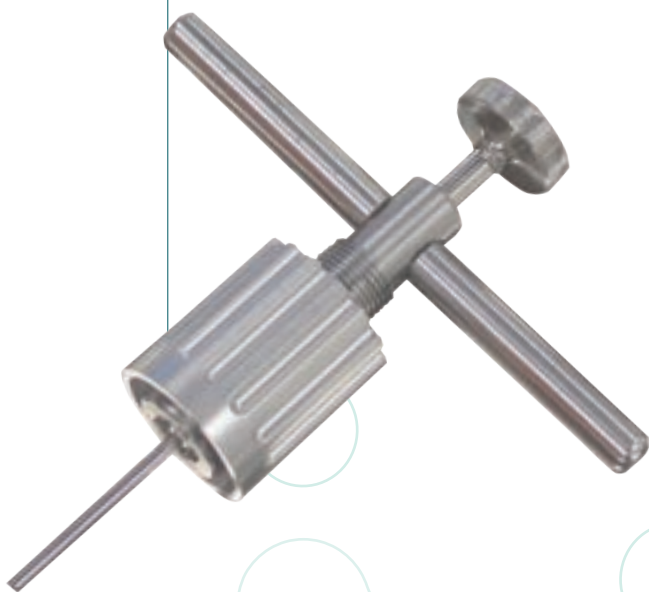


### FEATURES AND BENEFITS

- 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 LN<sub>2</sub> 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

## BASQUE FROZEN TISSUE XTRACTOR

*A hand-held frozen tissue extractor.*



### FEATURES AND BENEFITS

- Simple and easy design for extracting out small aliquots of tissue
- Provides workflow options for smaller labs
- Supports highest sample quality and integrity without the THAW cycle
- Preserves frozen tissue without contamination, allowing for increase sample utilization
- Various tissue types and sizes can be cored and is able to target specific tissue sections
- Avoids manual slicing of tissue
- Extracts out small volume aliquots up to 40 mgs for downstream analysis



## CAPP INCUBATOR

*Benchtop incubators, ideal for smaller laboratory setups.*

INCUBATORS &  
PLATE WASHERS



CAPP

### CAPPRONDO MINI INCUBATOR

- Compact incubator that fits on your benchtop
- Built-in digital temperature control system
- Thermal range between -15°C and 60°C
- Easily moveable due to its size of 13 x 14.5" and weight of 6.5 kg
- Equipped with an user friendly LED display
- Max load capacity of 20 liters

CAN BE  
MOVED  
EASILY!



## CAPP PLATE WASHER

*To wash your microwells as a part of the ELISA testing process.*

### CAPPWASH

- The ideal ELISA plate washer for small scale work
- Simple, compact and cost-effective
- Available in 8-channel, 12-channel and 16-channel versions
- Stainless steel robust design
- Has a 2 in 1 tube design which prevents channels from clogging
- Its operated with just the click of a button





## SPL GUARD FLORIDA

*To defrost multiple sample racks in a controlled manner.*



### FEATURES AND BENEFITS

- Controllably thaws samples in a multi rack capacity
- Can be used as a stand-alone system or integrated into a robotic workstation like a liquid handler
- Thawing up to 10 racks in just 9 minutes
- Thaws in a consistent rate to guarantee the quality of the sample remains the same
- When the SPL Guard Florida is fully loaded with racks, it can thaw samples 60% faster than any other instrument on the market
- Thaws all samples evenly and reduces uneven thawing to less than 20% per rack
- Comes with several adapters where the samples can be placed in for the thawing of the samples

## SPL GUARD ARIZONA

*Unique thawing station for uniform and fast thawing of samples*



### FEATURES AND BENEFITS

- Thaws a complete rack from -80°C to 5°C in only 6 minutes
- Stops thawing when the desired temperature is reached and confirms this with a beeping sound
- Is compatible with a wide range of SBS-format racks
- A consistent and reproducible solution for a variety of samples and reagents
- Compact and lightweight: 445 x 270 x 148 mm and 9 kg

REQUEST YOUR FREE DEMO NOW

CONTACT US AT: [INFO@NBSSCIENTIFIC.BE](mailto:info@nbsscientific.be)



we deliver  
you discover



## sample analysis



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

To analyze samples accurately, NBS Scientific has equipment for you ready. We can offer a luminometer to measure the luminescence of biological and chemical reactions. We also have a wide variety of tubes, tube strips and plates used during the analyzing process of samples. These products are made of highly transparent and high quality plastics. These products are compatible with automated liquid handlers, thermal cyclers or magnetic particle processors.



# VITL LUMINOMETER

*Optimized for biological and chemical luminescence reactions.*

## LU-MINI

- Compact and lightweight benchtop luminometer
- Accepts a single tube/vial
- Compatible with 10 -15mm round tubes/vials as well as 10mm 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 sample/results data transfer
- Free included app for the PC
- Storage capacity for up to 1000 test results
- Intuitive touchscreen available for easy operating



LUMINOMETERS

**Vitl**  
LIFE SCIENCE SOLUTIONS





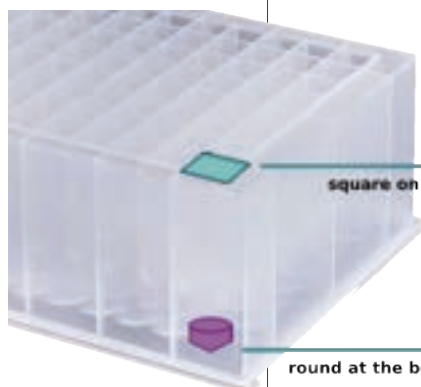
## DEEPWELL PLATES

**ritter**  
MEDICAL

# RITTER DEEPWELL PLATES

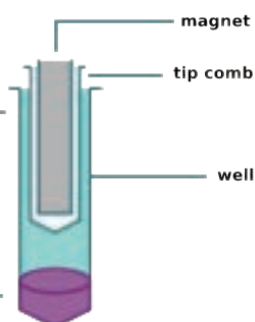
*For cleaning, mixing or centrifugation of samples.*

SUITABLE FOR:  
KINGFISHER™ 96  
FLEX MAGNETIC  
PARTICLE  
PROCESSOR



square on top

round at the bottom



## RIPLATE MAGNETIC

- Specially designed for application in the Kingfisher™ 96 Flex Magnetic Particle Processor, Qiagen: Bio Sprint 96 and the Kingfisher™ Presto
- Riplate® magnetic is in line with the SBS standard (Society for Biomolecular Screening)
- High resistance towards commonly used solvents and alcohols
- High stability also during centrifugation
- Slightly raised rims reduce the risk of cross-contamination
- Newly developed cylindrical wells enable a good bioturbation of samples
- Alphanumeric code allows the registration and identification of individual samples even in confined spaces
- Made in class 8 cleanroom conditions

## RIPLATE

- Riplate® 96 plates manufactured from highly transparent polystyrene assure an optimal surface for microscopic analysis
- Ideal for fluorescence applications and automation friendly
- Standardized dimensions (128 x 85 mm) ensure the compatibility with most common laboratory machines
- Also in Square wells available.



# CAPP PCR PLATES, TUBES AND STRIPS

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

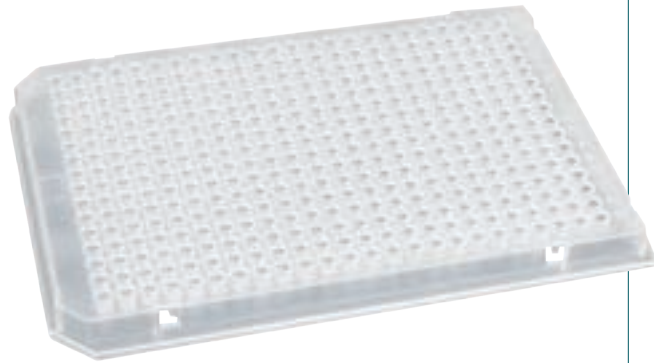
(Q)PCR  
CONSUMABLES



CAPP

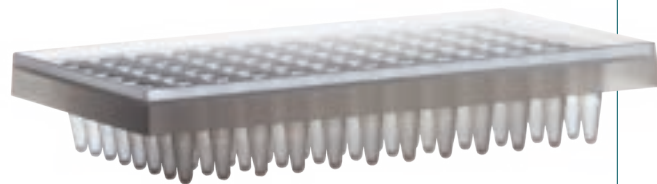
## CAPP EXPELL 384 PCR PLATES

- Optimal for a PCR signal from the bottom of the plate
- Ultra thin treated walls to minimize the binding of proteins
- Evaporation rate below 3%
- Plates are rigid, flat and stackable
- Compatible with the majority of 384-well thermal cyclers



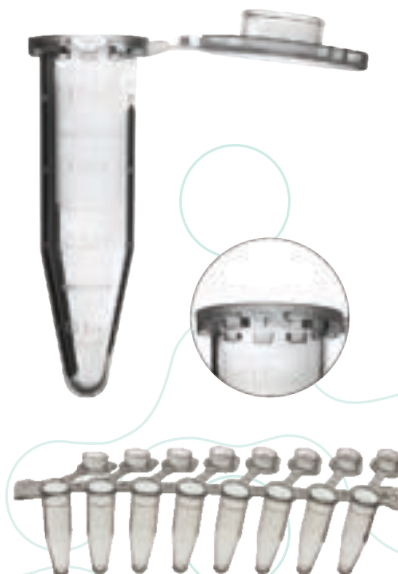
## CAPP EXPELL PCR PLATES

- 96-well PCR plates
- Autoclavable and highly transparent
- Optimal for bottom signals
- DNA, DNase, RNA, RNase and Pyrogen free
- Compatible with majority of thermal cyclers
- Available in low (0.1ml) and normal (0.2ml) volumes
- Low binding interiors reduces adhesion of proteins



## CAPP EXPELL PCR TUBES AND STRIPS

- Sold individually or as a strip
- Available in strips with or without cap
- Tube sizes are 0.1 and 0.2 mL
- Optimal use in situations where signal is obtained through bottom of tubes
- Fit perfectly in standard thermal cyclers
- Thin-walled to reduce adhesion of proteins
- V-shaped bottom for 100% sample recovery
- Evaporation less than 3%



we deliver  
you discover



## 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 a laser, either manual or fully automatic. We also offer devices that can read laser-etched tube 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.



# AFYS<sub>3</sub>G LABWARE MARKING SYSTEMS

*Manual and automated tube marking.*

LASER MARKING SYSTEMS



AFYS<sub>3</sub>G

## MANUAL LASER MARKING SYSTEM LAMBDA8

*No labels, stickers or ink to mark tubes.*

- Mark tubes from 0.30ml to 15.00ml
- 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



COMPATIBLE  
WITH LIMS  
SYSTEMS!



TUBE  
HANDLERS

**MICRONIC**  
INNOVATION IN SAMPLE STORAGE

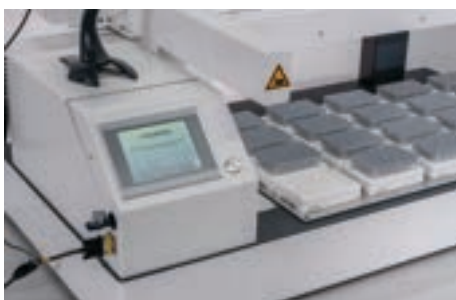
## MICRONIC TUBE HANDLERS

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



### MICRONIC HT<sub>500</sub> TUBE HANDLER

- Automatically sorting tubes within 96-well format racks
- Cost effective solution
- Semi-automatic linking between rack-ID and rack-position
- Separate safety stop ensures sample/product protection
- Compatible with standard ANSI/SLAS format racks
- Easy-to-operate and user-friendly interface
- Upload pick-lists via usb-thumb 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



# MICRONIC TUBE HANDLERS

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

TUBE  
HANDLERS



**MICRONIC**  
INNOVATION IN SAMPLE STORAGE

## MICRONIC HT700 TUBE HANDLER

PROCESS  
MORE TUBES  
IN LESS  
TIME!

- 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 0.50ml, 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: 560 x 864 x 889 mm







## CODE READERS



# MIRCRONIC SINGLE TUBE CODE READERS

*For fast, accurate, and efficient sample identification.*

## Tube Reader DT510

## Tube Reader DT300



5-YEAR  
WARRANTY!



### FEATURES



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



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.





REQUEST YOUR FREE DEMO NOW  
CONTACT US AT: [INFO@NBSSCIENTIFIC.BE](mailto:info@nbsscientific.be)



## 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.





FULL RACK  
CODE READERS

**MICRONIC**  
INNOVATION IN SAMPLE STORAGE

## MICRONIC FULL RACK CODE READERS

*For fast, accurate, and efficient sample identification.*

### Micronic DR710



### Micronic DR700



#### FEATURES



Scan time: 7 seconds

Scan time: 7 seconds



Dimensions: 309 x 230 x 87 mm

Dimensions: 309 x 230 x 87 mm



CCD Imaging Technology

CCD Imaging Technology



96, 48, 24-format compatible

96, 48, 24-format compatible



Active Anti-frost system

Passive Anti-frost system



Single tube reading

Single tube reading



Optional 1D barcode reader

Optional 1D barcode reader

INCLUDES  
SINGLE-TUBE  
READING  
FUNCTION!

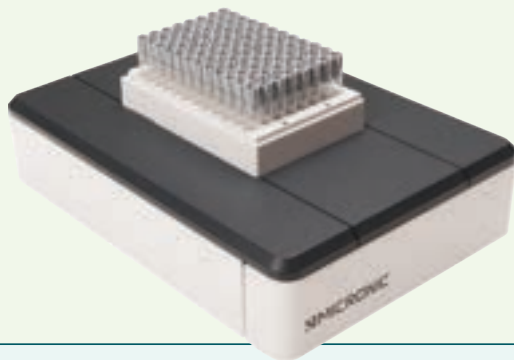
## DID YOU KNOW...

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





## Micronic DR505



## Micronic Side barcode reader



Scan time: 5 seconds	Scan time: 1 second
Dimensions: 265 x 186 x 70 mm	Dimensions: 230 x 132 x 35 mm
CIS Imaging Technology	CCD Imaging Technology
96, 48, 24-format compatible	ANSI/SLAS barcoded rack compatible
Passive Anti-frost system	N/A
Single tube reading	N/A
Optional 1D barcode reader	1D barcode reader



The Micronic DR700 and DR505 scanners are designed with an passive anti-frost system that can read racks filled with 2D barcoded tubes straight from the freezer. The passive 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. The DR710 has an active anti-frost system, drawing in ambient air to remove condensation.

we deliver  
you discover



# sample storage



## THE ULTIMATE LABWARE AND MACHINERY TO STORE YOUR VALUABLE SAMPLES

In our sample storage portfolio you can find the innovative 2D coded sample storage tubes by Micronic, with external and internal threads. You can also find Micronic Hybrid-coded tubes to ensure the ultimate traceability of your samples. Fitting on the tubes are a wide variety of caps and the tubes can also be stored in SBS-format racks. To cap or decap our sample storage tubes we offer different equipment by Micronic and AFYS3G. Rather store something for a short period? Then you are also able to seal the tubes or plates with a heat sealer by Vitl.



# MICRONIC SAMPLE STORAGE TUBES

Store your valuable samples and aliquots for longer periods.

SAMPLE STORAGE TUBES

**MICRONIC**  
INNOVATION IN SAMPLE STORAGE

## SUPERIOR MICRONIC TUBE FEATURES

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

### INTERNAL THREAD

- Has a thread on the inside of the tube, for the tightest seal possible during ultra-low temperature storage
- Supplied with or without 2D code on the bottom, which has a black code surface that can't be separated from tube due to a unique injection molding technique
- Offers different cap types for secure and sustainable storage

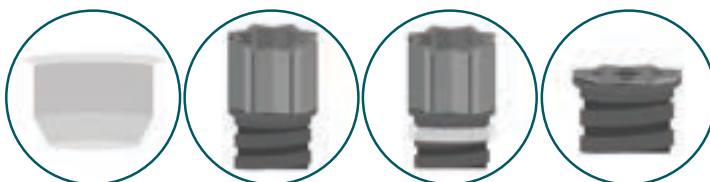


### EXTERNAL THREAD

- Has a thread on the outside of the tube, maximizing the working volume of the tube
- Supplied with or without 2D code on the bottom, which has a black code surface that can't be separated from tube due to a unique injection molding technique
- Has a Hybrid version with multiple white codeable fields on the tube



### CAPS FOR INTERNAL THREAD TUBES



Push Caps; special push caps for storage until -80°C

Screw Caps; the regular screw caps for long-term storage

Screw Caps Ultra; caps with an optimal seal for automation

Screw Caps Low Profile; lower caps to save extra storage in the freezers

### CAPS FOR EXTERNAL THREAD TUBES



Push Caps; special push caps for storage until -80°C

Screw Caps; the regular screw caps for long-term storage

Screw Caps IG; screw caps with improved grip for automated systems

### SAMPLE TUBE BOTTOM TYPES



Inner Flat-bottom for the ultimate storage of tissue or other solid material.



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



Inner U-bottom for maximum working volume.



## EXTERNAL THREAD TUBES



# MICRONIC EXTERNAL THREAD TUBE CHART

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**

Storage Rack	Micronic 96-1	Micronic 96-1	Micronic 96-2	Micronic 96-3	Micronic 48-1	Micronic 96-3	Micronic 96-4	Micronic 96-5	Micronic 24-2	Micronic 48-4
Inner Tube Shape	V- or Vr-bottom	V-bottom	V-bottom	V-bottom	Flat Bottom	V-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	0.93 ml	1.11 ml	1.55 ml	3.35 ml	3.40 ml
2D Coded Non-Coded	Yes Yes	Yes No	Yes Yes	Yes No	Yes No	Yes Yes	Yes Yes	Yes No	Yes No	Yes No
Outer Diameter Tube Height With Screw Cap	8.8 mm 16.4 mm 19.9 mm	8.8 mm 21.8 mm 25.3 mm	9.0 mm 30.0 mm 33.5 mm	8.8 mm 34.8 mm 38.3 mm	13.0 mm 16.0 mm 19.7 mm	9.0 mm 41 mm 44.6 mm	9.0 mm 48.0 mm 51.5 mm	9.0 mm 63.0 mm 66.5 mm	16.3 mm 30.0 mm 33.5 mm	13.0 mm 48.0 mm 51.5 mm
Twist-lock Snap Tube Minimum Storage Temp.	Yes No Vapor Phase LN2	Yes No Vapor Phase LN2	Yes No Vapor Phase LN2	Yes No Vapor Phase LN2	Yes No Vapor Phase LN2	Yes No Vapor Phase LN2	Yes No Vapor Phase LN2	Yes No -80°C* (Use rack with cover)	Yes No Vapor Phase LN2	Yes No Vapor Phase LN2

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

## DID YOU KNOW?

We also offer a Micronic single tube picker/selector that helps you pick a tube from an entire filled rack. This nifty tool can help you manually select a tube without having to tip over the rack or lift it. You also only require to use one hand to pick the tube.










# MICRONIC HYBRID TUBE CHART

Externally threaded tubes with 4 coding concepts.

HYBRID  
TUBES

**MICRONIC**  
INNOVATION IN SAMPLE STORAGE

							
	<b>0.75 ml</b>	<b>1.40 ml</b>	<b>1.50 ml</b>	<b>2.00 ml</b>	<b>3.00 ml</b>	<b>3.00 ml</b>	<b>6.00 ml</b>
<b>Storage Rack</b>	Micronic 96-2	Micronic 96-4	Micronic 24-1	Micronic 48-2	Micronic 48-3	Micronic 24-1	Micronic 24-4
<b>Inner Tube Shape</b>	U-bottom	U-bottom	Flat bottom	Flat bottom	Flat bottom	Flat bottom	Flat bottom
<b>Working Volume (+21°C)</b>	0.62 ml	1.20 ml	1.45 ml	1.95 ml	2.90 ml	2.45 ml	6.00 ml
<b>2D coded</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>1D barcoded</b>	Yes	Yes	No	Yes	Yes	No	Yes
<b>Human readable</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Blank tube walls</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Capping Options</b>	Screw Cap	Screw Cap	Screw Cap	Screw Cap	Screw Cap	Screw Cap	Screw Cap
<b>Outer Diameter</b>	8.8 mm	8.8 mm	16.3 mm	13.0 mm	13.0 mm	16.3 mm	16.3 mm
<b>Tube Height</b>	30.0 mm	48.0 mm	16.0 mm	30.0 mm	41.0 mm	23.0 mm	48.0 mm
<b>Tube Height with SC</b>	33.5 mm	51.5 mm	19.5 mm	33.5 mm	44.5 mm	26.5 mm	51.5 mm
<b>Height tube in rack</b>	30.8 mm	48.8 mm	17.0 mm	30.8 mm	42.0 mm	24.0 mm	48.8 mm
<b>Precapped</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Twist-lock</b>	Yes	Yes	Yes	Yes	Yes	No	Yes
<b>Min. Storage Temp.</b>	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2
<b>Availability</b>	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack	Bulk, Rack

## 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 due to a unique injection molding technique
- Triple-start thread ensures optimal seal quality for long-term storage



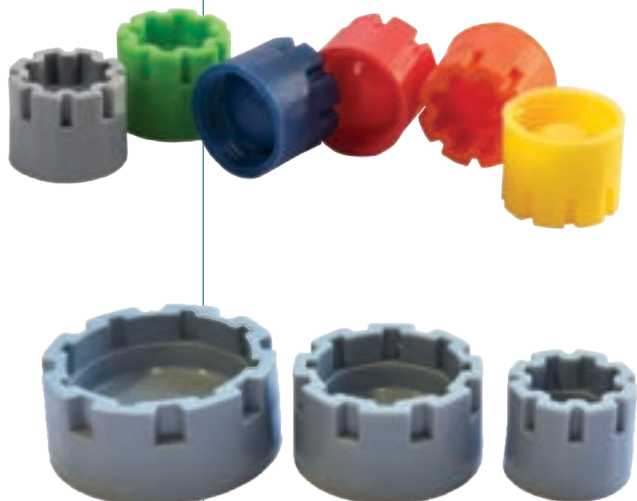
AVAILABLE  
IN SMALL  
PACKS!



## SCREW CAPS

# MICRONIC SCREW CAPS FOR TUBES WITH EXTERNAL THREAD

*Secure seal for ultra-low temperature storage.*



## FEATURES AND BENEFITS

- Triple-start thread for optimal sealing
- Available in 12 different colors
- Ideal for storage in ultra low temperatures
- Unique lock when sealed prevents overturning of cap
- Eliminates the possibility of the sample coming into contact with the screw thread
- Minimizes the chance of cross-contamination while improving sample integrity
- Cap optimized for automated equipment
- Sturdy design and made of high grade Polyethylene
- Comes in 96-well, 48-well and 24-well sizes

# MICRONIC SCREW CAPS IG

*Improved grip caps for automated systems.*



## FEATURES AND BENEFITS

- Screw caps that are optimized for use in automation
- Has a cap-height of only 5.8mm, so smaller than regular external screw caps
- Has an improved pattern on the sides for extra strong grip
- Newly designed lead-in on top of the Screw Cap ensures a better tube placement
- Comes in 96-well size

## DID YOU KNOW?

We also offer Micronic Cap Carriers for all types of caps. You are even able to order our caps pre-racked in a cap carrier. You can use the cap carrier in (semi-)automated capping systems to easily transfer them onto the destination rack. We offer these in 96-well, 48-well and 24-well format.












# MICRONIC INTERNAL THREAD TUBE CHART

Overview and specifications.

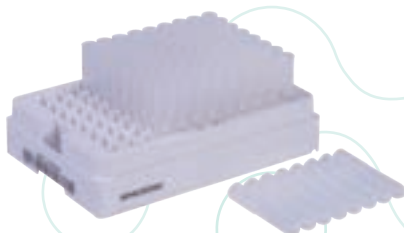
INTERNAL  
THREAD TUBES

**MICRONIC**  
INNOVATION IN SAMPLE STORAGE

							
	0.50 ml	0.75 ml	1.10 ml	1.40 ml	2.00 ml	4.00 ml	6.00 ml
<b>Storage Rack</b>	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
<b>Inner Tube Shape</b>	V-bottom	V- or U-bottom	V-bottom	V- or U-bottom	U-bottom	Flat bottom	Flat bottom
<b>Working Volume with Push Cap (PC)</b>	0.30 ml	0.58 ml	0.90 ml	1.15 or 1.20 ml	1.58 ml	N/A	N/A
<b>Working Volume with Screw Cap (SC)</b>	0.21 ml	0.48 ml	0.80 ml	1.04 or 1.10 ml	1.49 ml	2.70 ml	4.80 ml
<b>2D coded</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Alphanumeric</b>	Yes	Yes	No	Yes	Yes	Yes	No
<b>Non-coded</b>	Yes	Yes	Yes	Yes	No	Yes	Yes
<b>Capping Options</b>	Screw Cap Push Cap	Screw Cap Push Cap	Screw Cap Push Cap	Screw Cap Push Cap	Screw Cap Push Cap	Screw Cap	Screw Cap
<b>Outer Diameter</b>	9.0 mm	9.0 mm	9.0 mm	9.0 mm	9.0 mm	13.0 mm	16.3 mm
<b>Tube Height</b>	18.5 mm	26.0 mm	36.5 mm	44.0 mm	59.0 mm	44.0 mm	43.35 mm
<b>Tube Height with PC</b>	19.5 mm	27.0 mm	37.5 mm	45.0 mm	60.0 mm	N/A	N/A
<b>Tube Height with SC</b>	26.0 mm	33.5 mm	44.0 mm	51.5 mm	66.5 mm	51.0 mm	51.4 mm
<b>Twist-lock</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Snap Tube Option</b>	Yes	Yes	Yes	Yes	No	No	No
<b>Minimum Storage Temperature</b>	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	Vapor Phase LN2	-80°C*	Vapor Phase LN2	Vapor Phase LN2

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

## TUBESTRIP-8



## AMBER TUBES



## SNAP TUBES



TUBES  
FOR EVERY  
APPLICATION!



## SCREW CAPS

# MICRONIC SCREW CAPS FOR TUBES WITH INTERNAL THREAD

*Secure seal for ultra-low temperature storage.*



## FEATURES AND BENEFITS

- 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

# MICRONIC SCREW CAPS ULTRA

*The ultimate sealing cap for internal tubes.*



## FEATURES AND BENEFITS

- New design optimizes automated & 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



# MICRONIC SCREW CAPS LOW-PROFILE

*Safe on valuable freezer space and electricity costs.*



## FEATURES AND BENEFITS

- 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



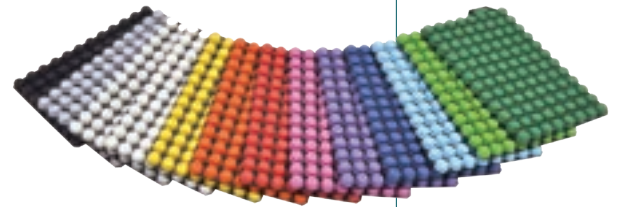
## MICRONIC PUSH CAPS

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

PUSH  
CAPS

### 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



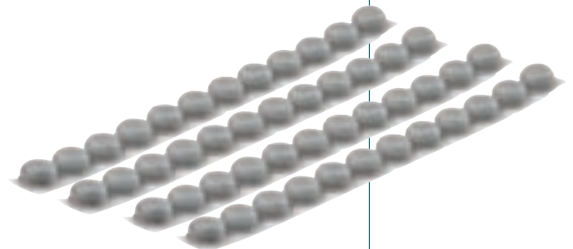
### TPE CAPMATS

- Capmats cap 96 tubes at once and are arranged on a non-removable 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
- Use for samples stored in temperatures as low as -40°C

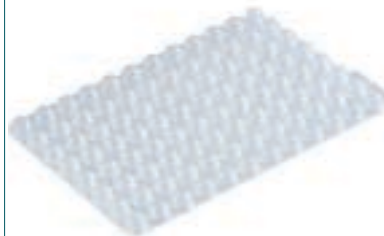


### TPE LYO CAPS



*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.*



## STORAGE RACKS

IDEAL  
PROPERTIES  
FOR ULTRA LOW  
TEMPERATURE  
STORAGE

## MICRONIC STORAGE RACKS

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

**138-well HD rack**



**96-well ULT rack**



**48-well ULT rack**



**24-well ULT rack**



<b>Tube Compatibility</b>	Compatible with tubes from 0.75 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
<b>Rack Format</b>	6 rows of 13 tubes & 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)
<b>Material</b>	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
<b>Dimensions</b>	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
<b>Resistant to Chemical Solvents</b>	Yes	Yes	Yes	Yes
<b>Minimum Storage Temperature</b>	Vapor Phase LN2 to +100°C	Vapor Phase LN2 to +140°C	Vapor Phase LN2 to +140°C	Vapor Phase LN2 to +140°C



## MICRONIC SPECIAL RACKS

*Designed with distinct features.*

**Bottom ID Rack**



**ComoRack-96**



<b>Specialty</b>	With additional bottom-ID for faster and more accurate traceability	Extra sturdy rack designed with unique 'feet'
<b>Tube Compatibility</b>	Compatible with tubes from 0.30 ml to 1.40 ml in size	Compatible with tubes from 1.40 round bottom tubes
<b>Rack Format</b>	96-well format	12 rows of 8 tubes (96 tubes total)
<b>Material</b>	Polycarbonate	Polycarbonate
<b>Dimensions</b>	127,8 mm x 85,5 mm	127,8 mm x 85,5 mm
<b>Resistant to Chemical Solvents</b>	Yes	Yes
<b>Minimum Storage Temperature</b>	Vapor Phase LN2 to +140°C	Vapor Phase LN2 to +140°C



## MICRONIC 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  
PACKS



### 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.



CRYO  
TUBES

CAPP

## CAPP EXPELL CRYOTUBES

*With the patented QuickSeal™ and Lip Seal closures, your samples are safely stored.*



### FEATURES AND BENEFITS

- External threaded tube that allows one-handed opening and closing
- Also suitable for square cryoboxes (9x9 and 10x10)
- Suitable for storage in the gas phase LN2
- Available in five sizes: 0.50ml, 1.00ml, 2.00ml, 4.00ml and 5.00ml
- Star-shaped base design, for safe handling and best stability when standing upright
- Max. Level indicator for sample storage at LN2

## CAPP EXPELL CAP INSERTS

*By inserting different coloured plates into the caps, you get a quick overview of your samples.*



### FEATURES AND BENEFITS

- Visual aid to quickly identify and keep your samples separate
- Easy and quick to install
- Are freezer stable
- Available in red, blue, purple, yellow, white and green
- Packed in bags of 500 plates each

## CAPP EXPELL CRYOBOXES

*Store your Expell cryotubes in 10x10 cryoboxes.*



### FEATURES AND BENEFITS

- Designed for the storage of CAPP Expell cryotubes
- Also compatible with cryotubes from various manufacturers
- Made of very strong polypropylene, suitable for freezing at -90 °C and autoclaving at +121 °C (20 min.)
- With numerical coding on lid and bottom of each box
- The edges of each box are bevelled to ensure correct and proper positioning of the lid

REQUEST YOUR FREE SAMPLE NOW  
CONTACT US AT: [INFO@NBSSCIENTIFIC.BE](mailto:INFO@NBSSCIENTIFIC.BE)





MANUAL  
(DE)CAPPERS

**MICRONIC**  
INNOVATION IN SAMPLE STORAGE

## MICRONIC PUSH CAP CAPPER CP400

*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 & partially full racks with complete range of Micronic TPE and EVA style caps
- Caps tubes up to 1.4ml 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 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.*



## MICRONIC AUTOMATIC PUSH CAP (DE)CAPPERS

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

AUTOMATIC  
(DE)CAPPERS

**MICRONIC**  
INNOVATION IN SAMPLE STORAGE

**[AFYS]3G**

### 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 1.40ml) 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 1.40ml (48mm) & CP610 works with tube sizes up to 2.50ml (86mm)
- Compatible with complete range of Micronic 96-format internal thread tubes



## AFYS<sub>3</sub>G AUTOMATIC SCREW CAP RECAPPER

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

### SIGMA RECAPPER BY AFYS<sub>3</sub>G

*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





AUTOMATIC  
(DE)CAPPERS

**MICRONIC**  
INNOVATION IN SAMPLE STORAGE

AWARD-  
WINNING  
DESIGNS!

## MICRONIC SCREW CAP RECAPPER CS500

*A handheld, automatic device that caps, decaps, or 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
- 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 24-well 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 6.0ml) 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)



HEAT SEALERS

**Vitl**  
LIFE SCIENCE SOLUTIONS

## VITL MICRO TS HEAT SEALER

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

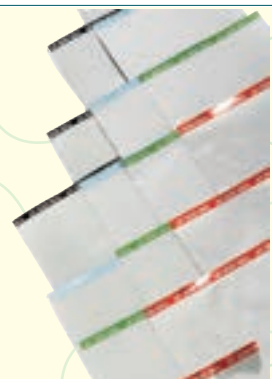
### FEATURES AND BENEFITS

- 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.





# cell cultivation



## brands THE CELL CULTIVATION SYSTEM THAT CAN BE CUSTOMIZED

### PFEIFFER

Cell culture is the process by which cells are grown under controlled conditions, generally outside their natural environment. After the cells of interest have been isolated from living tissue, they can subsequently be maintained under carefully controlled conditions. Pfeiffer is a German company with a lot of experience in cell control. This company has the knowledge to guarantee a constant quality.



## CELLROLL

*Optimised cell culture.*

CELL  
CULTIVATION

PFEIFFER

### FEATURES AND BENEFITS

- Includes two roller racks, which each hold 2 bottles, for a total of 4 bottles
- Includes a control unit and a motor unit (Bottles are sold separately)
- A motor unit can handle 8 roller racks, which are 16 bottles in total and a control unit can handle up to 2 motor units, so 32 bottles total.
- Additional racks and control units are sold separately
- The drive unit is moisture resistant and comes in 2 programmable speed ranges: 0.1 to 2 rpm or 2 to 6 rpm
- An alarm is triggered in the event of a power failure or accidental disconnection of the drive unit or control panel
- Robust and corrosion resistant design



## CELLSPIN

*Optimised cell culture.*

### FEATURES AND BENEFITS

- Shaker for cell cultures in flasks with a robust and corrosion resistant design
- Flasks have a culture volumes from 100 to 1000 ml
- Speed range from 5 to 75 rpm while the stirring parameters can be individually adjusted and changed at any time on the control panel
- The control panel can be positioned outside the incubator, while the flask can be stirred inside
- An alarm is triggered in the event of a power failure or accidental disconnection of the drive unit or control panel



## CELLINE

*A disposable bioreactor for high protein expression rates.*

### FEATURES AND BENEFITS

- Cultivate cells at the highest densities ( $10^7$ - $10^8$  cells/ml)
- Express proteins like monoclonal antibodies at very high concentrations and less consumption of supplements like serum, therefore reducing costs
- The bioreactor is separated by means of a 10kDa semi-permeable membrane, which allows a continuous diffusion of nutrients into the cell compartment with a current removal of any inhibitory waste product



we deliver  
you discover



# technical services



## 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 TECHNICAL SUPPORT?

*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 three easy ways to contact us.



+31 (0)36 549 1010



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## MICRONIC SERVICE CONTRACTS

*Ranging from visits to preventive maintenance (PM) on Micronic devices.*

### EQUIPMENT

*We offer service to several Micronic devices*

- CS500 Recapper series & CS700 Recapper series.

### SERVICE LEVELS

*We offer several levels of service depending on your needs*

- Level 1A: PM where equipment will get send to the workshop (CS500 + CS700)
- Level 1B: PM on location (CS700)
- Level 2: One PM inspection on location and one emergency visit (CS700)
- Level 3: One PM inspection on location, two emergency visits and Micronic Software Updates (CS700)

SERVICE  
CONTRACTS



**MICRONIC**  
INNOVATION IN SAMPLE STORAGE

**basque**  
ENGINEERING SCIENCE

## BASQUE SERVICE CONTRACTS

*Preventive maintenance on Basque devices.*

### EQUIPMENT

*We offer service to a Basque device*

- CXT 353 Frozen Sample Aliquoter

### SERVICE LEVELS

*We offer one level of service*

- Level 1: Preventive Maintenance







# sustainability



## SUSTAINABILITY PROGRAM

*At NBS Scientific we value sustainable solutions at heart.*

We strive to be as sustainable as possible. When it comes to purchasing decisions regarding our packaging materials, product portfolio or goodies and gifts, as well as our ways of traveling. When certain sustainable decisions can't be made (i.e. decisions that would impact the quality of our products and services), we think of ways to target these aspects, like becoming CO<sub>2</sub> neutral.

## OUR ROAD TO BECOMING CO<sub>2</sub> NEUTRAL

*In 2023 we became CO<sub>2</sub> neutral by supporting forest projects of Trees For All.*

To offset our unavoidable CO<sub>2</sub> emission, we now are proud owner of a CO<sub>2</sub> neutral certificate issued by Trees For All. We made a donation for every tonne of CO<sub>2</sub> emitted. Trees For All ensures that these emissions are recorded in their certified forestry projects. We choose to support the reforestation of the Bolivian forests.





# 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've 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 employees drive cars with low CO2 emission (A-label)



## SOCIAL COMMITMENT

*This is how we are socially involved.*

- Support several national charities, like The Ocean Clean-up, focusing on cleaning our ocean of plastic waste and Trees For All, focussing on helping to regrow forests.
- Support the local charity Muziekids, which supports children that are hospitalized by giving them an opportunity to play musical instruments and distract them from any pain they might have.
- Offer work placements or comakerships to students as part of their studies



## OUR BRANDS

*Learn more about the brands we love to work with.*

AFYS3G

AFYS3G is a Dutch company committed to improving laboratory processes by developing bench-top equipment that represents the 3Goals for which AFYS3G was founded; enhance performance, empower integration and ensure compatibility.



Basque Engineering and Science delivers off the shelf and custom automated frozen aliquotting solutions to the scientific community to preserve sample integrity, increase sample utilization and support major R&D initiatives.

CAPP

CAPP is a Danish company that is specialized in liquid handling products (pipettes and pipet tips). The product range of CAPP also contains laboratory consumables and benchtop equipment. CAPP lab equipment is outstanding in terms of ergonomics, design and functionality.

GenTegra

GenTegra is an American company that manufactures stabilization products to protect biological samples during transportation and long-term sample storage. Gentegra's products help customers to collect, transport, and/or store RNA and DNA samples at ambient temperatures.

MICRONIC

Micronic, based in the Netherlands and the US, manufactures innovative sample storage and preservation products for research laboratories in the life sciences industry. These products include sample storage tubes, racks, caps, barcode readers, and automated lab equipment.

novitain

Novitain offers labware and equipment products to enhance the preparation and processing of samples. The labware products include blank round bottom tubes in 96-well format, a high-density format Grid Rack and caps in a strip, mat or cluster format.

PFEIFFER

PFEIFFER electrical engineering GmbH is a German company which has been in the business for over 20 years with automation and finding customized solutions. With the CELLROLL and CELLSPIN product line they are focusing their activities on laboratory technology & biotechnology.

ritter  
MEDICAL

Ritter GmbH is a highly productive manufacturer of plastic consumables. The family owned company has more than 50 years of experience in the injection moulding of branded laboratory and medical products. Their own production facilities are certified according to ISO DIN 9001.

SPL GUARD

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

Vitl

Vitl designs, manufactures and sells high quality laboratory instruments to compete with market leaders at an affordable price with unrivalled functionality, usability and style. This range includes the world's best-selling microplate heat sealer – The VTS and its compact counterpart the MicroTS.

## EVENTS, TRADE SHOWS AND 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 AND NEWSLETTER

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



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TWITTER

[Twitter.com/nbsscientificbe](https://twitter.com/nbsscientificbe)



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