



TIPS FOR A LITTLE BIT GREENER LAB

- 🌿 Select a supplier with green values in practice
- 🌿 Replace tap water-cooling with circulators
- 🌿 Shut down the instruments when not in use
- 🌿 Avoid unnecessary heating and cooling
- 🌿 Choose less harmful reagents when available
- 🌿 Maintain your instruments regularly to keep them running longer
- 🌿 Order in bulk when possible, to avoid extra packaging and shipping



Photo by Savannah Vasquez on Unsplash

Let's talk

...about sustainability

The proportion of plastic waste from laboratories corresponds to approximately 1.8% of the plastic waste generated worldwide (based on the year 2015). Our partners manufacturing laboratory consumables take sustainability seriously pursuing environmental policies.

Eppendorf's environmental policies

Eppendorf has had a DIN EN ISO 14001 international standard conforming environmental management system for years. The high quality, efficiency, and long service life of products contributes to the careful use of resources. This ensures that environmental requirements are defined for each stage in the life cycle of their products as early as the development process.

Sustainability strategy of Greiner Bio-One

Greiner's sustainability strategy **Blue Plan** consists of following goals:

- Being climate neutral by 2030 (target limited to Scope 1 and 2 emissions)
- Being a fully circular business by 2030



-20%

eppendorf

Centrifuge 5804/5804 R

This is a high speed centrifuge for medium capacity needs. It allows for molecular applications in tubes up to 250 mL and offers additional swing-bucket and fixed-angle rotors as well as deepwell plate capacity for increased versatility.



Ask more from
Mirja!

Mirja Heinonen
mirja.heinonen@bionordika.fi
Tel. 020 7410 279

greiner
BIO-ONE

ThinCert® Inserts for 6, 12 and 24 well multiwell plates

The ThinCert® cell culture inserts are suitable for a wide range of applications including transport, secretion and diffusion studies, migrational experiments, cytotoxicity testing, co-cultures, trans epithelial electric resistance (TEER) measurements, as well as primary cell culture. 6 different membrane specifications (pore size and density).

-10%



Serum-free medium X-VIVO for hematopoietic cells

- Optimal performance of cells: remarkably higher population doubling rate, high amount of viable cells
- No serum required- reduce variables in cell culturing
- Available also xenofree, without antibiotics or phenol red
- GMP produced TheraPEAK X-VIVO version for more demanding applications



Lonza



Product	Optimal for
X-VIVO 10	Slow growing, less mature cells: LAKs, PBLs
X-VIVO 15	Rapidly growing cells: TILs, CD3+ cells, monocytes, macrophages, PBLs, NKs, granulocytes
X-VIVO 20	LAK generation from PBLs, TILs

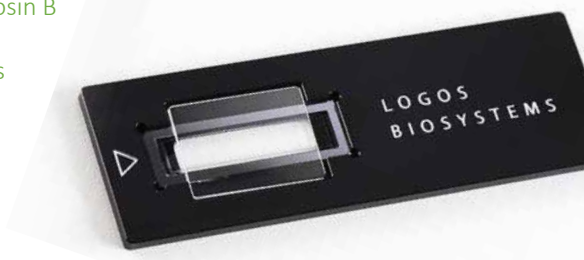
Variety of ready-to-use blood and immune cells

- Variety of donors with different characteristics available to choose from
- The cells are ethically sourced
- Thoroughly QC tested, HLA-typed, screened for viruses (HIV, HV, HCV)
- PBMCs, MSCs, CD34+ cells, T-cells, B-cells, Dendritic cells, NK cells, Whole blood, Leukopaks, Bone marrow... Ask us for a list of available donors!



Stop clicking! Just press COUNT

- Luna family of automated cell counters will give you reliable cell concentration and viability data in seconds
- Compatible with multiple cell types: customizable protocols
- Check your results immediately onboard: counted cells are tagged
- The software can distinguish single cells in clusters or clumps reproducibly
- Bright-field or fluorescence mode available
- Avoid potential teratogen, trypan blue, by changing to non-hazardous vital dye: Erythrosin B
- Produce less plastic waste by changing to reusable glass slides



biosystems



Contact Hanna for more information

Hanna Laiho
 hanna.laiho@bionordika.fi
 Tel. 020 7410 280

For every Luna cell counter purchased in 2021, we will plant a tree for you!



Let's talk

...about purification and amplification



Monarch™ Your solution for nucleic acid purification

To be environmentally friendly at the same time you conduct high quality research can be difficult and there is no easy solution. One thing that can be made to help move towards a greener lab is changes to the product design. NEB has done exactly that when they have designed the Monarch Nucleic Acid Purification Kits.

The kits:

- Use up to 44 % less plastic than the leading supplier
- Bottles are carefully chosen to minimize plastic usage
- All components are purposefully sourced to ensure recyclability
- All printing on the boxes and protocol cards is done with soy and water based inks
- For maximum convenience and value, columns and buffers are also available seperately

-14%
on all
Monarch
kits*



Make a green choice – choose NEB Monarch kits for:

Genomic DNA and total RNA extraction, DNA & RNA cleanup, plasmid minipreps, and gel extraction!

Monarch kits enable quick and easy purification of high-quality DNA and RNA, suitable for use in a variety of downstream applications. Recover pure, intact DNA and RNA in minutes with fast, user-friendly protocols and optimized buffer systems.

T2010S Monarch Total RNA Miniprep Kit

- Purify total RNA from multiple sample types (blood, cells, tissues and more) with a single kit
- Includes DNase I and gDNA Removal Columns for efficient DNA removal
- Effectively purify RNA of all sizes, including small RNA (<200 nt) optimized buffer systems
- Possibility for automated RNA extraction from saliva on the QIAcube® and KingFisher™ Flex

Q5 High-Fidelity DNA Polymerases

Let the spring and your DNA grow with a new speed. Q5 has a speed of 6 kb/min and sets a new standard for both fidelity and robust performance.

- Highest fidelity amplification (>280X higher than Taq)
- Ultra-low error rates
- Superior performance for a broad range of amplicons (from high AT to high GC)
- Hot start and master mix formats available



Ask more from
Pia!

Pia Ojala
pia.ojala@bionordika.fi
Tel. 020 7410 274

Q5U® Hot Start High-Fidelity DNA Polymerase

Q5U® is a modified version of Q5 Polymerase that has a ability to read and amplify templates containing uracil and ionisine bases. Application enabled by the Q5U Hot Start High-Fidelity DNA Polymerase:

- Bisulfite-treated DNA & enzymatically-deaminated DNA
- Damaged DNA (e.g. FFPE)
- dU incorporation/carryover prevention
USER® cloning

-11%
on all DNA
polymerases
from NEB*

e.g.: Q5 High-Fidelity DNA Polymerase, Phusion® High-Fidelity DNA Polymerase, OneTaq® DNA Polymerase, Taq DNA Polymerase, LongAmp® Taq DNA Polymerase



ARTIC SARS-CoV-2 sequencing with NEBNext

New NEBNext ARTIC kits provide a new option for fast, reliable and cost-effective sequencing of SARS-CoV-2. Based on the original work of the ARTIC Network (Josh Quick 2020. nCoV-2019 sequencing protocol v2 (GunIt)), the kits include balanced V3 primer pools for improved uniformity of genome coverage. Effective with 10-10,000 SARS-CoV-2 genome copies, the reagents and protocol for RT-PCR and library prep are all optimized for the SARS-CoV-2 ARTIC workflows.

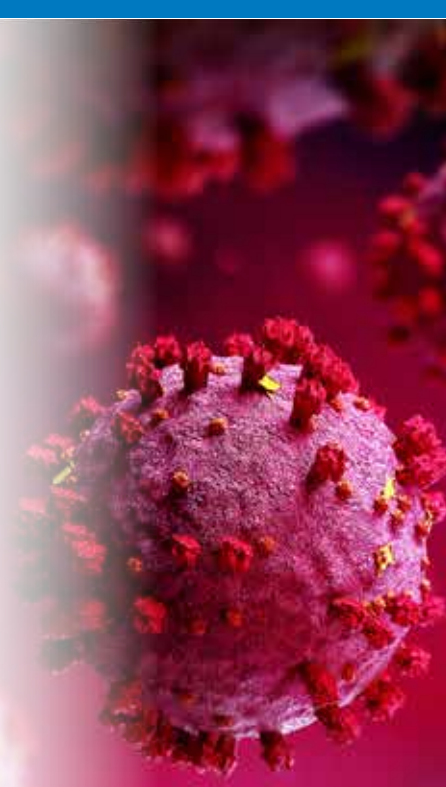
- Single RT conditions for all input amounts
- No amplicon normalization prior to library preparation (Illumina-compatible kits)
- Optional use of control human primers
- NEBNext Sample Purification Beads (SPRIselect®) provided
- Library adaptors and primers available separately (Illumina-compatible kits)
- Cost-effective

Available products:

- NEBNext® ARTIC SARS-CoV-2 Library Prep Kit (Illumina®) (#E7650), for ~400 bp libraries
- NEBNext® ARTIC SARS-CoV-2 FS Library Prep Kit (Illumina®) (#E7658), for ~150 bp libraries
- NEBNext® ARTIC SARS-CoV-2 Companion Kit (Oxford Nanopore Technologies) (#E7660)

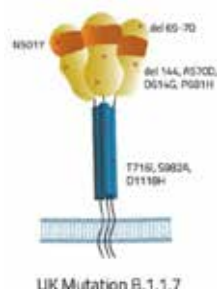
We can offer for SARS-CoV-2 research and diagnostics

- Airway cells and media: F.ex. respiratory cell types like airway epithelial cells and air liquid interphase (ALI) differentiated epithelial cells
- HLA-typed immune cells and media
- NEW! hPBMCs from COVID-19 patients
- Agarose and media for viral plaque assays
- FlashGel system for rapid DNA/RNA electrophoresis in minutes
- Media for vaccine and biotherapeutics production
- Endotoxin testing of vaccines and biotherapeutics
- Rapid antigen (also from saliva) and antibody tests
- Anti-Sars-CoV-2 Antibodies
- Sars-CoV-2 antigens
- RNA extraction kits
- IVD RT-qPCR detection kits
- Covid-19 qPCR primers and probes



Full-length trimeric spike antigen variants of SARS-CoV-2:

- UK Variant (B.1.1.7 Mutation)
- South African Variant (B.1.351 Mutation)
- Brazilian Variant (P.1 Mutation)



Talk to Mirja!

Mirja Heinonen
mirja.heinonen@bionordika.fi
Tel. 020 7410 279

Let's talk

...about plant biotechnology

Are you already familiar with the BioNordika dNTP mix?

We provide you with a dNTP equimolar mixture 10 mM of dATP, dCTP, dGTP and dTTP in a clear aqueous solution. Enhance your PCR reaction with our ultrapure products ($\geq 99\%$ (HPLC)).

#BN-1006-4: dNTP Mix, 10mM 4ml, 151 €

#BN-1006-08: dNTP Mix, 10mM 0,8ml, 46 €



Standard agarose

For fast routine separation of DNA and RNA fragments

We are also happy to present our own standard agarose, ideal for fast routine separation of DNA and RNA fragments.

- Easy dissolution and fast gelling
- Excellent transparency and low background staining, which provides clear visibility of the bands
- Sharp, well-defined bands
- Very low DNA fixation

#BN-5004: Standard Agarose Type LE, 500g, 315 €



Ask Pia!

Pia Ojala
pia.ojala@bionordika.fi
Tel. 020 7410 274

We at BioNordika want to offer products for every part of your research.

Now you can find products for **plant research** from us.

Products from PhytoTech Labs are here for you:

- Plant tissue culture biochemicals and media
- Molecular biology
- Seed testing
- Antimicrobials
- Microbiology
- Plant tissue culture Kits
- Phytopathology
- Phycology

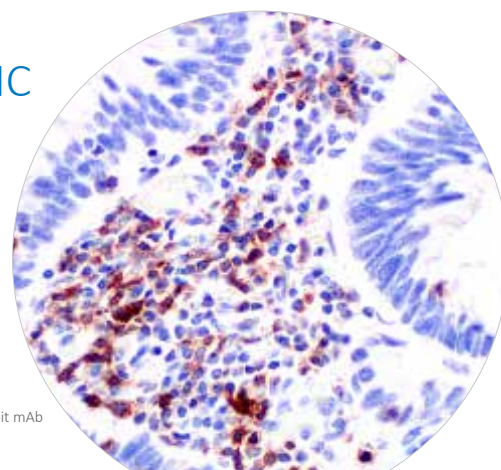




NEW!

Cell Signaling Technology TIGIT Antibody for IHC

TIGIT is the latest immune checkpoint under investigation as an immunotherapy target. Understanding and then modulating the response of T cells to repeated antigen stimulation has always been important to viral infection research, but now it is crucial to the success of immune checkpoint blockade/stimulation and adoptive T cell (CAR-T, NK) therapies. It is very important to have an anti-TIGIT antibody that is thoroughly validated in IHC for accurate tissue analysis!



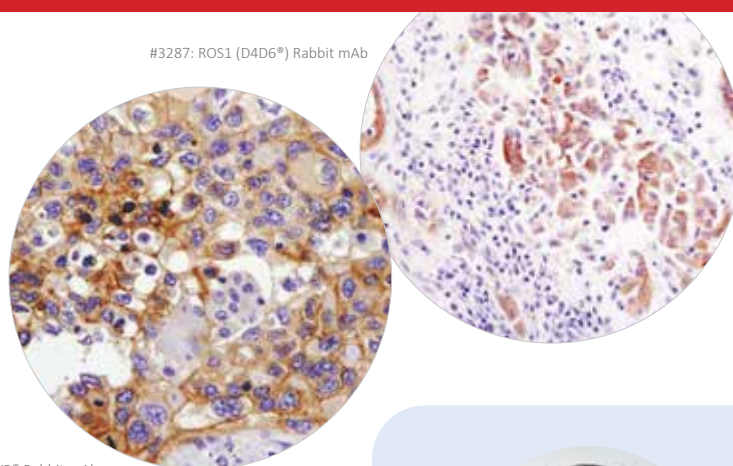
#99567 TIGIT (E5Y1W) XP® Rabbit mAb

CST ANTIBODY OFFER:

Buy two S-size or L-size antibody from the CST catalog and get a FREE microsize (20 µl) antibody of your choice!

Our most popular antibodies for IHC:

Cat. no.	Product
3287	ROS1 (D4D6®) Rabbit mAb
3633	ALK (D5F3®) XP® Rabbit mAb
13684	PD-L1 (E1L3N®) XP® Rabbit mAb
45208	TIM-3 (D5D5R™) XP® Rabbit mAb
82723	PD-L2 (D7U8C™) XP® Rabbit mAb



#3287: ROS1 (D4D6®) Rabbit mAb

#13684: PD-L1 (E1L3N®) XP® Rabbit mAb

GREEN IDEAS

Did you know that majority of CST antibodies can be shipped in room temperature?

CST performs temperature stability testing on all antibodies to assess activity after storage for one week at -20°C, at room temperature and at 37°C. All antibodies shipped at room temperature have been found to be just as active and stable when stored at room temperature as on ice. The stability of your antibody is guaranteed!

Once you receive your antibody, please continue to store it at -20°C.



Juho can help you!

Juho Niva
Juho.niva@bionordika.fi
Tel. 020 7410 276

Let's talk

...about green and environmental ideas



Earth-Friendly products

Biotium has labeled certain products with a green earth symbol for customers looking for more sustainable alternatives.

- These products will have at least one of the following features:
- Non-toxic and less hazardous alternative
- Environmentally friendly disposal
- Greater efficiency for less waste of resources



-10%
on all Biotium
Earth-Friendly
products

Earth-Friendly products from Biotium include:

- **EvaGreen** qPCR dye
- **GelGreen & GelRed** DNA gel stains
- **AccuGreen and AccuBlue** DNA quantitation kits for Qubit



Cayman Chemicals enables your research

Wide portfolio of biochemicals and assay kits, antibodies and proteins.



-12%

Reusable Cayman Tote bag for free with your Cayman Chemicals order! (As long as the stocks last.)

NanoDrop - a game changer again!

NanoDrop changed the way nucleic acid and protein samples are measured when they first introduced their revolutionary sample retention technology. Now the latest addition to the NanoDrop family allows you to distinguish between DNA and RNA in your sample, saving time troubleshooting downstream.

With NanoDrop you don't need any extra dyes – just pipet and measure!

Already using a NanoDrop One/NanoDrop OneC? Download the latest update v. 2.2 for free to get more information of your sample!



Our courier partners are evaluated for their sustainability:

Our local transport company DB Schenker is using renewable diesel made of 100% waste and residuals in capital area and Turku. In Vantaa terminal there are 786 solar panels producing energy for the terminal and corporate office.

Our main international shipper, TNT/FedEx, is committed to mitigating their environmental impact in three areas:

Reduce

Minimize emissions through platooning and intermodal rail.

Replace

Modernize our vehicles with more efficient models.

Revolutionize

Utilize fleet electrification.



Promotional code: **BN-GREEN21**

Note! The promotional code must be referenced when ordering to receive the discounts and special prices. The offers are listed ex. VAT and shipping charges, and are valid until 30.06.2021. The offers cannot be combined with other offers or agreements. We reserve the right for typos.

BioNordika Oy (Finland) • Kutomotie 18, 00380 Helsinki
tel 0207 410 270 • info@bionordika.fi • www.bionordika.fi