

- Viral Transport and Preservation Medium (BioServ UK) CE-IVD
- MagBead Viral RNA Lysis Buffer (BioServUK)
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- Primers and probes (Eurogentec)
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Viral Transport and Preservation Medium

BioServUK's viral transport and preservation medium is designed for the safe preservation and transport of viruses such as coronaviruses clinical samples for performance evaluation in PCR, RT-PCR, cell culture methods and other IVD procedures.

The media contains multiple antibiotics to prevent bacterial and fungal contamination and is supplied in sterile vials. Manufactured in Europe according to ISO13485 and ISO9001 QMS standards and to CDC (Centers for Disease Control and Prevention; SOP#: DSR-052-01).



MagBead Viral RNA Lysis Buffer

BioServUK MagBead Viral RNA Lysis Buffer is intended for the isolation and purification of total nucleic acids (DNA/RNA) from biological specimens for performance evaluation in in vitro diagnostic procedures.

Validated and used by Ireland's Health Service Executive, HSE

Direct replacement for Roche MagNA Pure 96 External Lysis Buffer (Code: 06374913001),

Biomérieux Nuclisens Lysis Buffer (Code: 280134) and Qiagen Buffer RNAeasy Lysis Buffer

(Code: 79216) Made in the UK

500 ml and 10 L packages

Please see [here](#) for more information about formulation, sizes and other specifications.



Purification of RNA, Monarch[®] Total RNA Miniprep Kit (#T2010S)

- For use with blood, cells and tissues
- Also works with tough to lyse samples (bacteria, yeast, plant)
- Effectively purifies total RNA of all sizes, including small RNAs >20 nt
- Efficient genomic DNA removal (column and DNase I-based)
- Contains Proteinase K for processing of tissues and blood samples
- Includes RNA Protection Reagent for sample preservation
- Excellent value
- Kit components available separately

Learn more about Monarch[®] Total RNA Miniprep Kit [here](#)



NEB does not currently supply a kit specifically designed for viral RNA extraction.

However, several customers have provided feedback that they have used this kit successfully to extract viral RNA from other biological samples. For guidance on the use of this kit with saliva, buccal swabs and nasal swabs, see the protocol here click [here](#).

Purification of RNA, Monarch RNA Cleanup Kits (#T2030, #T2040, #T2050), RUO

The Monarch RNA Cleanup Kit (10 µg) enables fast and simple purification and concentration of up to 10 µg of RNA from enzymatic reactions.

- Ideal for cleanup and concentration of RNA after enzymatic treatments including DNase I, Proteinase K, labeling, capping or in vitro transcription (IVT)
- Elute in ≥ 6 µl for concentrated RNA
- 70-100% RNA recovery, even with inputs < 20 ng
- Efficiently purify RNA ≥ 25 nt (a simple modification enables purification of RNA ≥ 15 nt)
- Can be used to purify RNA from the aqueous phase following TRIzol[®] or similar extractions
- Simplified workflow with a single wash buffer
- Unique column design prevents buffer carryover and elution of silica particulates
- Columns and buffers are available separately
- Purified RNA is ready for use in a wide variety of downstream applications

Learn more about Monarch RNA cleanup kits [here](#).

Viral Nucleic Acid Extraction Kit, RUO

The Viral Nucleic Acid Extraction Kit was designed specifically for purification of viral DNA/RNA from cell-free samples such as: serum, plasma, body fluids, and the supernatant of viral infected cell cultures (COVID-19).

- DNA/RNA viruses are lysed quickly and efficiently.
- Nucleic acids bind to the glass fiber.
- Nucleic acids are eluted in RNase-Free water and are then ready downstream assay, e.g. RT-PCR.
- Sample Size: 200µl sample (plasma, serum, body fluid, or supernatant of viral infected cell cultures).
- Operation Time: 40min or less.
- Elution Volume: 50µl.

See manual [here](#).



IB47400	Viral DNA/RNA Extraction Kit	4 preps	RUO
IB47401	Viral DNA/RNA Extraction Kit	50 preps	RUO
IB47401	Viral DNA/RNA Extraction Kit	100 preps	RUO
IB47402	Viral DNA/RNA Extraction Kit	300 preps	RUO

Primers and Probes for SARS-CoV-2 detection

Eurogentec is a specialist in custom oligos synthesis and they can synthesize all types of overlapping primer pairs that span parts of or the entire genome.

Oligos can be custom ordered as well as the required oligonucleotides recommended by WHO and CDC for SARS-CoV-2 genome-based assays.

Since Eurogentec now has a continuous production of these primers and probes these can normally be shipped within a few days.

The synthetic E gene as positive control is also available upon request.

Please contact BioNordika if you are interested in more information about the ordering process and with your specific needs.



RT-qPCR reagents

Takyon qRT-PCR kits for Probe Assay

Eurogentec's unique One-Step Takyon™ RT-qPCR reagents are actively used by several leading European labs for the diagnosis of COVID patients.

As a primary manufacturer of such amplification reagents, Eurogentec is supporting the local and international efforts against the COVID pandemic. Looking for a reliable source of RT-qPCR reagents for COVID detection? Eurogentec offers several options for all types of cyclers and versions with rox, low rox and no rox.

See brochure [here](#).

Contact us for help with choosing the right reagents and the ordering process.



RT-qPCR kits

Luna® Universal Probe One-Step RT-qPCR Kit from New England Biolabs

Includes everything you need for rapid, sensitive, and precise probe-based qPCR detection and quantitation of RNA targets.

Available in both with rox ([E3006](#)) and no rox ([E3007](#)) for instruments that do not require the ROX passive reference dye.

- One product per application simplifies selection
- Convenient master mix formats and user-friendly protocols simplify reaction setup
- Non-interfering, visible tracking dye helps to eliminate pipetting errors

[Learn more](#) about Luna® Universal Probe One-Step RT-qPCR Kit or see the rest of the Luna product line qPCR or RT-qPCR [here](#).

NEB's products are available for research purposes only. However, NEB is already supplying and supporting customers who are working diligently to develop better diagnostic tools and vaccines for the COVID-19 virus, and are ready to supply additional customers with the reagents they need to validate and develop them as diagnostic tools for lab-based or point-of-care settings.

Contact BioNordika for help with choosing the right reagents and the ordering process.



SARS-CoV-2 qRT-PCR Detection Assays, RUO

To help expedite SARS-CoV-2 research, GenScript's R&D team developed a 1 step qRT PCR detection assay based on GenBank Sequence NC_045512.2. This assay has successfully detected SARS-CoV-2 in positive control samples [ORF1ab gene](#), [RdRP gene](#), [N gene](#) and [E gene](#). Additional testing is ongoing and this assay should be considered for research use only (RUO).

Key Features:

- TaqMan™ qRT-PCR assay using primers and FAM probes for higher specificity.
- Targets ORF1ab gene RdRP gene, N gene and E gene in SARS-CoV-2 genome (GenBank sequences [NC_045512.2](#)).
- The assay shows positive reactivity to all four targeted genes.
- Highly sensitive and ultra low noise.
- Full reagent set with primers, probes, reagents and positive control plasmids.

Please contact BioNordika if you are interested in more information about the ordering process and with your specific needs to get a quote.

1-step, 1-plex assay	Manual	
SARS-CoV-2 qPCR detection 1-plex assay-ORF1ab	100 rxns	RUO
SARS-CoV-2 qPCR detection 1-plex assay-N	100 rxns	RUO
SARS-CoV-2 qPCR detection 1-plex assay-RdRP	100 rxns	RUO
SARS-CoV-2 qPCR detection 1-plex assay-E	100 rxns	RUO

1-step, 2-plex assay	Manual	
SARS-CoV-2 qPCR detection 2-plex assay-N&O	100 rxns	RUO
SARS-CoV-2 qPCR detection 2-plex assay-R&E	100 rxns	RUO



COVID-19 PCR detection kit

Product Code: BSV-qPCR-07, 100 reactions

The COVID-19 PCR Detection Kit is an in vitro real-time PCR-based test for the detection of ORF1ab and N genes of SARS-COV-2 and human gene endogenous control in a single closed tube assay. For in vitro diagnostics. The kit is for professional use only and may be used in pathology laboratories or in epidemiological studies in research settings.

Download instructions for use [here](#):

Specimen types:

- Naso/Oropharyngeal Swabs
- Sputum
- Blood
- Serum
- Plasma



RT-PCR quantitative COVID-19 assay (BioServUK) CE-IVD



Product Code: CLO-RT-25, 48 reactions

The qRT-PCR quantitative COVID-19 assay is a quantitative test that allows the quantification, by means of Real Time PCR, of the N region (nucleocapsid phosphoprotein) of novel Coronavirus (COVID-19) according to the CDC indications. The quantity COVID-19 kit CE-IVD has been in use in Italy. The evaluation was performed in collaboration with Sacco Hospital University of Milan and University of Milan- Department of Biomedical Sciences for Health – Reference Laboratory for Respiratory Infections Surveillance. For in-vitro diagnostic use only!

Usage of samples: This product must be used with extracted RNA from biological samples: Nasopharyngeal/oropharyngeal swabs, sputum and serum.

For more information about the kit please see the datasheet [here](#).

Please contact BioNordika if you are interested in more information about the ordering process and with your specific needs to get a quote.

Multiplex CE-IVD PCR panels for detection of respiratory pathogens



AusDiagnostics is an Australian company that focus on multiplex PCR panels and the automated equipment needed to run them. To present, AusDiagnostics has over 200 systems in use worldwide, analysing >1,500,000 samples per year.

The SARS-CoV-2, Influenza and RSV 8-well panel of assays utilises a multiplex-tandem polymerase chain reaction (MT-PCR) for the enrichment of targets and then amplification of targeted DNA and/or RNA and intended as a semi-automated IVD test for the identification of pathogens in nucleic acid extracts of nasal swabs, throat swabs, nasopharyngeal swabs, nasopharyngeal aspirate, tracheal aspirate, bronchial washing, or bronchoalveolar lavage.

SARS-COV-2, INFLUENZA AND RSV 8-WELL

Product code: 20081

#Gene symbol	Description	Inclusivity
1. Influenza A	Segment 2 of the fluA genome	H1, H3, H5, and H17
2. Gene Typing	Flu-Typing	H1(2009) and H3
3. Influenza B	Influenza B	Includes Yamagata and Victoria lineages
4. RSV	human Respiratory Syncytial Virus	human Respiratory Syncytial Virus all type A and B strains
5. SARS-CoV-2 a	SARS-CoV-2	
6. SARS-CoV-2 b	SARS-CoV-2	
7. NONO	Human reference gene	
8. SPIKE	Artificial sequence for assay control	

The Multiplex tandem PCR (MT-PCR) technology explained:

MT-PCR is a patented automated two step process.

Step 1- full multiplex reaction on the MT-Processor (low number of cycles – around 15 cycles in step 1)

Step 2 – simplex analysis by Real time PCR, which also includes amplicon melt analysis

Key features of AusDiagnostics MT-PCR system:

1. A very wide variety of panels to choose from. All of the panels can be run on the same equipment.
2. The process is highly automated- only 11 minutes hands on time per run. This saves time for the lab staff to perform different tasks while the system is running.
3. System is very user friendly and easy to use.
4. All the assays are provided in “ready to use” format. Simply take the contents out of the box and put them on the machine.
5. Workflow and sample numbers are flexible, to suit every customer’s needs.
6. Cost effective- only one test is required to find out a big number of targets from a sample.
7. AusDiagnostics complies with CE/IVD regulations- equipment and panels are CE/IVD marked.

Rapid detection of COVID-19

Rapid Molecular Detection of SARS-CoV-2 (COVID-19) Virus RNA Using Colorimetric LAMP, RUO

BioNordika and New England Biolabs (NEB) can offer a Colorimetric LAMP (Loop-Mediated Isothermal Amplification) kit which is designed to give a simple one-step solution for **visual detection of virus outside of the lab** and without the need for advanced testing infrastructure. Positive or negative results are indicated by a shift in color where negative reactions remains pink, while the positive ones turns yellow.

The system is designed to enable a quick, visual detection of amplification in the sample based on the production of protons and a consequent drop in pH value as a consequence of DNA polymerase activity in a LAMP reaction. This will in turn cause a color shift in the pH indicator in the solution.



[Read more](#) about how Colorimetric LAMP was used for quick detection of coronavirus (SARS-CoV-2, covid-19) RNA in this publication by researchers at NEB, in collaboration with researchers at the Wuhan Institute of Virology in China.

Also explore the latest research in direct detection of SARS-CoV-2 RNA using colorimetric LAMP which demonstrate the detection of synthetic SARS-CoV-2 viral RNA targets using NEB's [RT-qPCR](#) and [colorimetric RT-LAMP](#) reagents.

See app note [here](#).

WarmStart[®] Colorimetric LAMP 2X Master Mix (DNA & RNA)

Product code ([NEB #M1800](#))

Next Generation Sequencing of SARS-CoV-2

A growing number of methods are being developed and shared by the scientific community around the world for use in COVID-19-related work. These include methods for sequencing of SARS-CoV-2 and metatranscriptome analysis of COVID-19 samples, with applications in areas including epidemiology, metagenomic analysis and diagnostics.

[More information on these and other protocols.](#)

Products for Oxford Nanopore Technologies[®] (ONT) Sequencing, NEB, RUO

The following reagents are recommended in several third party COVID-19 sequencing protocols, including “PCR tiling of COVID-19 virus” in ONT Nanopore Community, and the [ARTIC protocol](#):

- Q5[®] Hot Start High-Fidelity 2X Master Mix ([NEB #M0494](#))
- Random Primer Mix ([NEB #S1330S](#))
- Deoxynucleotide (dNTP) Solution Mix ([NEB #N0447](#))
- NEBNext[®] Ultra™ II End Repair / dA-Tailing Module ([NEB #E7546](#))
- NEBNext Ultra II Ligation Module ([NEB #E7595](#))
- NEBNext Quick Ligation Module ([NEB #E6056](#))

Products for Illumina[®] Sequencing, NEB, RUO

The following reagents are available for sequencing on the Illumina platform:

- NEBNext Ultra II RNA Library Prep Kit for Illumina ([NEB #E7770](#))
- NEBNext Ultra II Directional RNA Library prep kit for Illumina ([NEB #E7760](#))
- NEBNext Ultra II DNA Library prep kit for Illumina ([NEB #E7645](#))
- NEBNext Ultra II RNA First Strand Synthesis Module ([NEB #E7771](#))
- NEBNext Ultra II Non-Directional RNA Second Strand Synthesis Module ([NEB #E6111](#))

SARS-CoV-2 NGS Panel for Illumina, BioServUK, RUO

This amplicon-based SARS-CoV-2 NGS panel is designed for COVID-19 Coronavirus research and surveillance, enabling complete genome sequencing of the new SARS-CoV-2 virus. This panel is specific for Illumina Sequencing platforms. The CleanPlex SARS-CoV-2 Panel contains the CleanPlex Multiplex PCR Primers and CleanPlex Targeted Library Kit with RT components. CleanPlex Indexed PCR Primers for sample pooling and CleanMag Magnetic Beads for bead purification and size selection are ordered separately to complete the workflow from input RNA to sequencing-ready NGS libraries.

- CleanPlex SARS-CoV-2 Panel (#918010, 8 reactions) [Datashheet](#)
- CleanPlex SARS-CoV-2 Panel (96) (#918011, 96 reactions) [Datashheet](#)
- CleanPlex Dual-Indexed PCR Primers for Illumina (#716006, 8 reactions) [Datashheet](#)
- CleanMag Magnetic Beads (#718001, 9 reactions) (available in 1mL, 5mL and 60mL) [User guide](#)