



# Lybe Scientific – your sample preparation expert

Lybe Scientific is a newly established (2021) Norwegian biotechnology company within the molecular diagnostic field and is founded with basis in patent pending intellectual property. Lybe Scientific's first product, NAxtra™ nucleic acid extraction kit (CE IVD) is a sample preparation solution widely used for COVID-19 diagnostics with about 10 million units sold nationally and internationally during the pandemic<sup>[1], [2], [3]</sup>. NAxtra™ has later proved to work more generally on other viruses and bacteria and for different types of nucleic acids (both RNA and DNA). The kit has been validated on a number of clinical sample types like for example nasopharyngeal and/or oropharyngeal swab samples, saliva, urine or vaginal swab samples. In validation experiments using Qnostics panels NAxtra™ has demonstrated sensitivity down to one virus pr PCR reaction.

Lybe develops products in accordance with the ISO13485 Quality Management System and our products for diagnostic use will be CE IVD-marked in compliance with The In Vitro Medical Devices Regulation (EU) 2017/746 (IVDR).

Lybe Scientific is also developing products for research use, and kits for isolation of total nucleic acids from whole blood and cells (primary cells, cell lines, bacteria etc) are now offered. Lybe is currently expanding the product portfolio and aims to be a premier provider of high-quality products for a wide range of life science and diagnostic purposes.

## Key benefits:

- NAxtra™ has been shown to have higher sensitivity than state-of the art products.
- NAxtra™ facilitates faster nucleic acid extraction than conventional solutions (down to 15 minutes compared to at least 30 minutes with competitors).
- NAxtra™ has been validated for use on a number of open robotic platforms used for high throughput diagnostics in the clinic such as KingFisher Flex, Biomek i7, Hamilton Microlab Star and Tecan Fluent 1080.
- The products can be offered at competitive prices.
- Lybe Scientific's current and future products is designed, developed and manufactured in Norway.

<sup>[1]</sup> Elisabeth T. Landaas et.al. Tidsskr Nor Laegeforen. 2021 Nov 12;141(18). The COVID-19 pandemic – experiences from a microbiology laboratory.

<sup>[2]</sup> Andreas Lind et.al., Journal of Clinical Virology. 2021 Aug;141:104906. Rapid SARS-CoV-2 variant monitoring using PCR confirmed by whole genome sequencing in a high-volume diagnostic laboratory.

<sup>[3]</sup> Elisabeth T. Landaas et.al. Journal of Clinical Virology. 2021 Apr; 137: 104789. 2021. Diagnostic performance of a SARS-CoV-2 rapid antigen test in a large, Norwegian cohort.

# Our products

## NAxtra™ nucleic acid extraction kit (CE IVD)

SARS-CoV-2 | Respiratory diseases | Sexually transmitted diseases

NAxtra™ nucleic acid extraction kit is a magnetic bead-based technology intended for RNA and DNA extraction from human nasopharyngeal and/or oropharyngeal swab samples, saliva, urine or vaginal swab samples. The product should be used for isolation and purification of bacterial or viral nucleic acids preparing clinical samples for downstream qualitative diagnostics and analysis, such as PCR and next-generation sequencing. Validation using reference material from Qnostics has demonstrated sensitivity down to one viral particle, using a 15 minute automation protocol on respiratory samples.

## NAxtra™ Blood total nucleic acid extraction kit (RUO)

High-quality nucleic acid extraction from whole blood

The NAxtra™ Blood total nucleic acid extraction kit is a magnetic bead-based technology developed for total nucleic acid extraction from whole blood samples. The protocol is developed for fast and easy isolation of high integrity nucleic acids and the extraction protocol may be run by manual procedures or implemented on any open automation system. The NAxtra™ Blood total nucleic acid extraction kit is a fast and easy to use solution for isolation of pure and high integrity DNA and RNA from whole blood samples. The total processing time is at approximately 23 minutes using a KingFisher Flex automation system.

## NAxtra™ Cells total nucleic acid extraction kit (RUO)

Fast and easy isolation of high-quality DNA and RNA

The NAxtra™ Cells total nucleic acid extraction kit is a reliable solution for researchers looking to extract high-quality RNA and DNA from various cells types including mammalian primary cells, cell lines and bacteria. The kit is based on magnetic beads and provides efficient and easy extraction of high integrity nucleic acids, allowing for accurate and sensitive downstream analyses such as PCR or next-generation sequencing.

## Ordering information

	Product name	Cat.no
CE IVD	NAxtra™ nucleic acid extraction kit 200	LSNX0200
CE IVD	NAxtra™ nucleic acid extraction kit 1000	LSNX1000
CE IVD	NAxtra™ nucleic acid extraction kit 5000	LSNX5000
CE IVD	NAxtra™ LYSIS BUFFER 40 mL	LSLY0200
CE IVD	NAxtra™ LYSIS BUFFER 200 mL	LSLY1000
CE IVD	NAxtra™ LYSIS BUFFER 1000 mL	LSLY5000
CE IVD	NAxtra™ MAGNETIC BEADS 4 mL	LSMB0200
CE IVD	NAxtra™ MAGNETIC BEADS 20 mL	LSMB1000
CE IVD	NAxtra™ MAGNETIC BEADS 100 mL	LSMB5000
RUO	NAxtra™ Blood total nucleic acid extraction kit, 48 reactions	LSBL0048
RUO	NAxtra™ Blood total nucleic acid extraction kit, 96 reactions	LSBL0096
RUO	NAxtra™ Cells total nucleic acid extraction kit, 48 reactions	LSNXC0048
RUO	NAxtra™ Cells total nucleic acid extraction kit, 96 reactions	LSNXC0096