



Manual and automated extractions

Protocol options for both manual and automated extractions.



Fast extraction

Fast extraction of nucleic acid using automated liquid handling robots (<15 min).



Proteinase K not needed

No need for proteinase K.



Carrier RNA not needed

No need for carrier RNA.



Sample volume

Sample volume of 100-200 μ l.



Elution volume

Elution volume of 50-200 μ l.



Attractive price

Highly attractive pricing.

NAXtra™ nucleic acid extraction kit (CE-IVD)

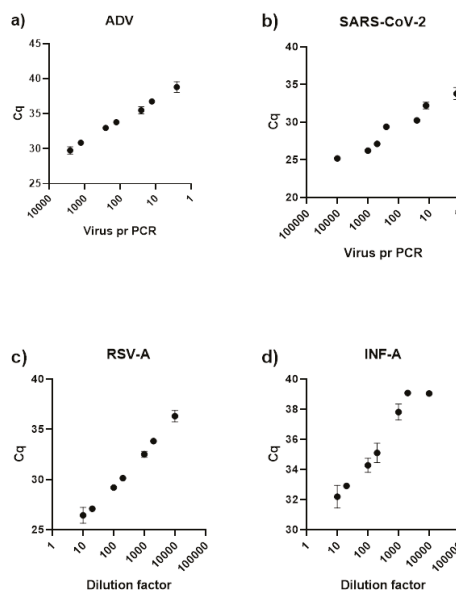
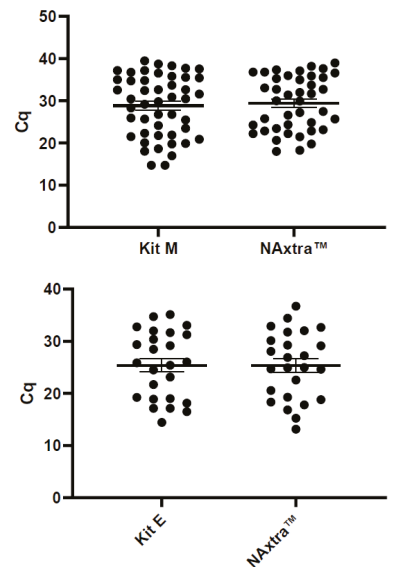
A sensitive and versatile solution for nucleic acid extraction from respiratory viruses

The 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 kit 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. The kit may be combined with sample collection devices and downstream assays of your choice*.

Flexible protocols to be implemented on open automation systems

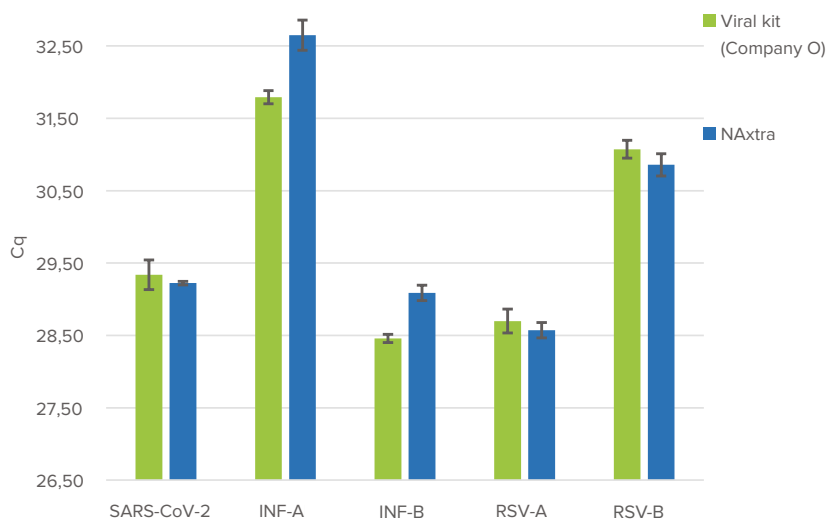
Figure 1: Validation of performance of NAXtra™ nucleic acid extraction performed on either a) 47 SARS-CoV-2 patient samples using Kit E on a Tecan Fluent® 1080 or b) 25 SARS-CoV-2 patient samples using Kit M on a King Fisher™ Flex. The extraction was done using a fast protocol (15 minutes in the KingFisher™ Flex system) and analysed by RT-PCR using ToughMix (QUANTABIO). The results demonstrate that NAXtra™ nucleic acid extraction kit performs equally good as commercially available sample preparation kits and can easily be implemented on commonly used open automation systems.



Qnostics panel performance - Excellent sensitivity on respiratory viruses

Figure 2: NAXtra™ nucleic acid extraction performance was validated using four Qnostics analytical panels. Panels a) and b) has quantified number of ADV and SARS-CoV-2 viruses, while prearranged dilutions were provided for RSV-A and INF-A (c and d). Eluates were analyzed by qPCR. Error bars show the standard deviation from 3 technical replicates for ADV, INF-A & SARS-CoV-2 and 4 technical replicates for RSV-A. The results demonstrates that the NAXtra™ method can facilitate detection of as low as one virus per PCR reaction (a and b). Although the RSV and INF panels did not include a quantified number of viruses, the NAXtra™ method enable the detection of these viruses at a 10 000-dilution factor (c and d).

* It is the sole responsibility of the user to validate the performance in combination with a particular downstream assay and / or automation device.



Viral nucleic acid extraction from respiratory samples in 15 minutes

Figure 3: A series of five patient samples positive of SARS-CoV-2, INF-A/B and RSV A/B were analyzed using NAxtra™ nucleic acid extraction kit and a similar kit from Company O. The extraction was done using 100µl sample input and either the protocol recommended by Company O (38 minutes) or the NAxtra™ protocol (15 minutes) on a King Fisher™ Flex automation system. Viral RNA was quantified by qRT-PCR with specific primers and PerfeCTa® qPCR ToughMix® (QuantaBio). The results indicated comparable performance between NAxtra™ and the kit from Company O, with 23 minutes shorter processing time using the NAxtra™ protocol. To summarize, NAxtra™ nucleic acid extraction kit demonstrate fast, versatile and sensitive nucleic acid extraction performance on respiratory samples.

Ordering info

NAxtra™ nucleic acid extraction kit can be purchased in 200, 1000 and 5000 reaction versions. Contact us if you need bulk quantities.

Cat.no	Product
LSNX0200	NAxtra™ nucleic acid extraction kit 200
LSNX1000	NAxtra™ nucleic acid extraction kit 1000
LSNX5000	NAxtra™ nucleic acid extraction kit 5000
LSLY0200	NAxtra™ LYSIS BUFFER 40 mL
LSLY1000	NAxtra™ LYSIS BUFFER 200 mL
LSLY5000	NAxtra™ LYSIS BUFFER 1000 mL
LSMB0200	NAxtra™ MAGNETIC BEADS 4 mL
LSMB1000	NAxtra™ MAGNETIC BEADS 20 mL
LSMB5000	NAxtra™ MAGNETIC BEADS 100 mL