viRNAtrap™ Extraction Kit (CE IVD)

For purification of viral RNA/DNA from a nasopharyngeal swab in all kind of transport medias.

This unique CE IVD extraction kit for RNA/DNA isolation is based on magnetic beads extraction technology. Extraction kit is suited for both manual and automated isolation. It is compatible with all open platforms on the market (TECAN, AGILENT Bravo, Thermo Fisher and others).

- **Easy handling** - The kit contains four bottles that can be transported and stored at room temperature for transport, storage and laboratory work.
- **Suitable for all types of laboratories** - Small laboratories may isolate RNA/DNA manually while large laboratories with huge testing capacity can use their instruments already in place.
- **Fast protocol** – Extraction under 10 minutes using KingFisher™ Flex Purification System.

Rapid and reliable purification

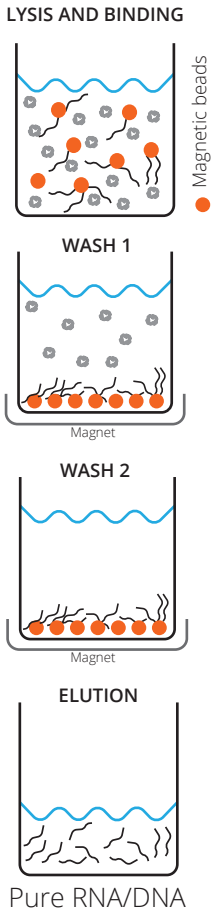
The viRNAtrap™ Extraction Kit simplifies purification of viral RNA/DNA from nasopharyngeal swab with fast magnetic beads based procedure.

The viRNAtrap™ Extraction Kit provides:

- **Easy 4-step protocol.**
- **Extremely rapid isolation of high-quality, ready-to-use viral RNA and DNA.**
- **Suitable for both manual and automated isolation.**
- **Magnetic beads extraction technology of isolation of viral RNA.**
- **No organic extraction or ethanol precipitation.**
- **Complete removal of contaminants and inhibitors.**
- **Highly efficient recovery with detection limit of 3000 RNA virus molecules.**

The viRNAtrap™ Extraction Kit uses the selective binding properties of silica-coated magnetic beads to catch nucleic acids from 100 µl of sample (nasopharyngeal swab in transport medium). Two wash steps provide pure total RNA/DNA that is eluted in 50-100 µl of elution buffer.

The resulting high quality purified RNA/DNA is free of proteins, nucleases, and other contaminants or inhibitors, and can be used in a wide range of downstream applications, such as RT-PCR (COVID testing), RT-qPCR, and other enzymatic reactions.



Manual and Automated Extraction in 10 minutes

Ordering information

GS-103 CE IVD viRNAtrap™ Extraction Kit - 100 pcs
GS-101 CE IVD viRNAtrap™ Extraction Kit - 500 pcs

orders@genespector.com

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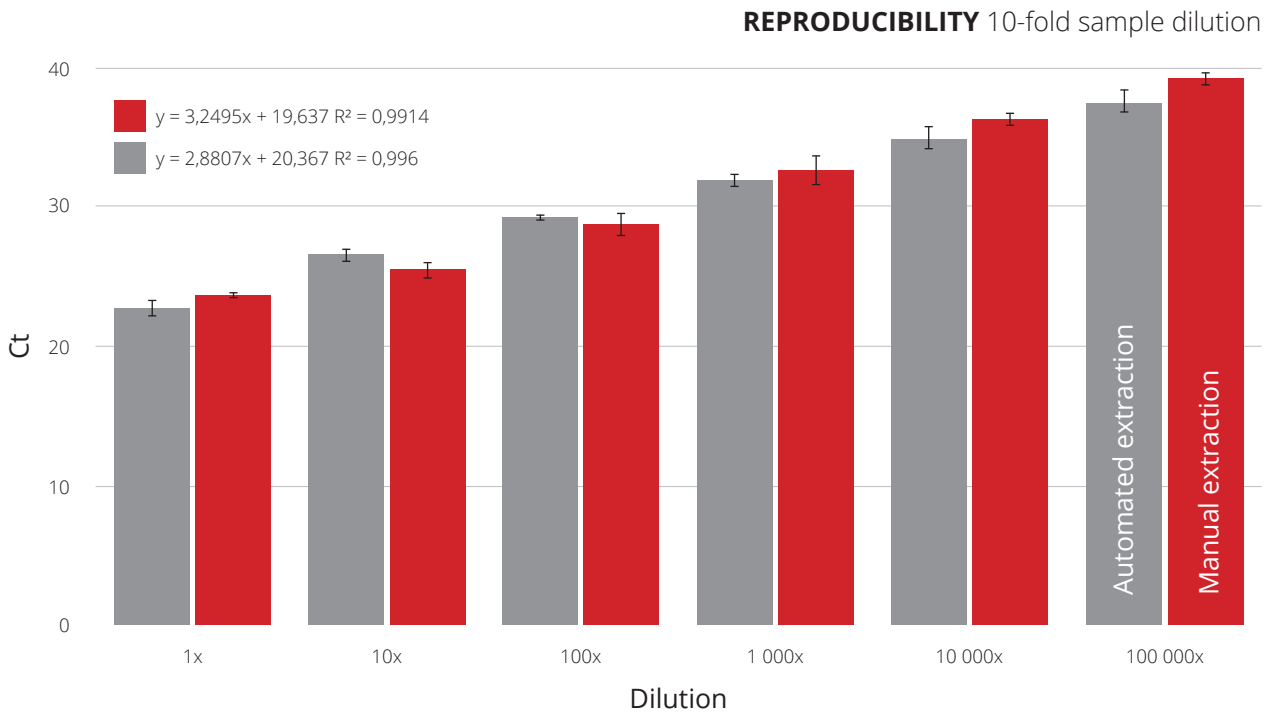
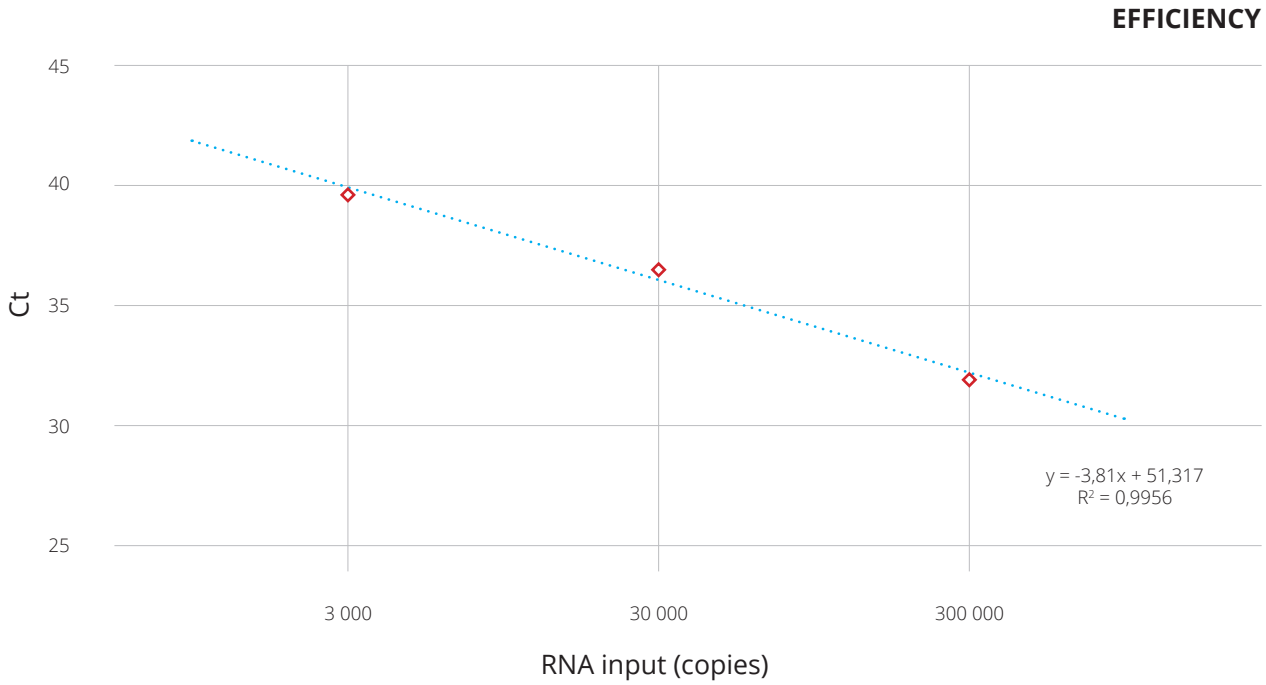
Comparison of automated and manual purification of viral RNA from nasopharyngeal swab using viRNAtrap™ Extraction Kit.

Human positive sample was prepared in serial 10-fold dilution series and isolated as triplicate manually or using KingFisher Flex Purification System under 10 minutes protocol.



Detection efficiency of viRNAtrap™ Extraction Kit.

SARS-CoV-2 negative nasopharyngeal sample in viRNAtrap™ transport medium was spiked with 3 x 10^5 virus molecules. RNA from the dilution series was extracted using viRNAtrap™ Extraction Kit. Isolated SARS-CoV-2 RNA was detected using gb SARS-CoV-2 Combi PCR kit on the CFX96 Touch Real-Time PCR System.