



MagSi-DX Pathogen Plus

Extraction of Pathogen Nucleic Acids From Clinical Human Samples

A robust kit for pathogen nucleic acid extraction is vital because it ensures the accuracy, sensitivity, and reliability of downstream diagnostic tests. Whether it's for identifying infectious agents, monitoring disease outbreaks, or studying pathogens in research, the quality of nucleic acid extraction impacts the entire diagnostic workflow.

MagSi-DX Pathogen Plus is a sample preparation kit for extraction of pathogen DNA and RNA from various human samples. By providing consistent, high-quality DNA and RNA samples, the kit helps to ensure that patients receive timely, accurate diagnoses, which is crucial for effective treatment and controlling the spread of infections.

Features

- *In-Vitro Diagnostic Device (EU 2017/746) for streamlined validation of diagnostic workflows*
- *Short and easy protocol: manual preparation time for 96 samples is ± 60 min*
- *Storage at room temperature*
- *Ready-to-use: no addition of alcohol or resuspension of Proteinase-K needed*
- *Automation-ready: compatible with all market-leading magnetic particle processors and liquid handling workstations*

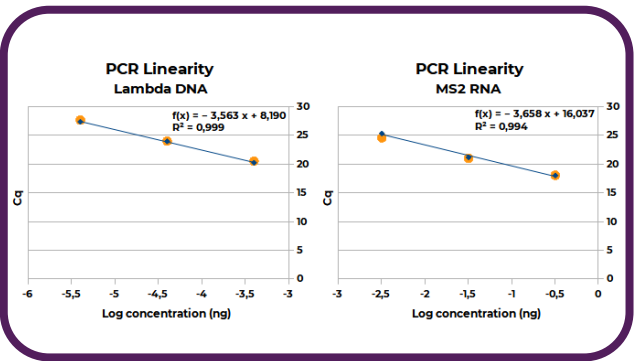


Figure 1. qPCR results obtained from 3 concentrations (10-fold dilutions) of spiked viral DNA and RNA. The blue data points represent spiked and extracted DNA and RNA. Linear regression results in $R^2 \geq 0.994$, indicating very good linearity of the extracted DNA and RNA. The orange data points represent non-extracted DNA and RNA spiked in elution buffer as controls. The Cq's for the controls and extracted DNA/RNA correspond well ($\Delta Cq \leq 0.7$, data not shown) and indicate high recovery.

Order via order@magtivio.com or visit our site for more.

| Art. No. | Description | Amount |
|---------------|------------------------|-------------|
| MDDX00030096 | MagSi-DX Pathogen Plus | 96 preps |
| MDDX000300960 | MagSi-DX Pathogen Plus | 10x96 preps |

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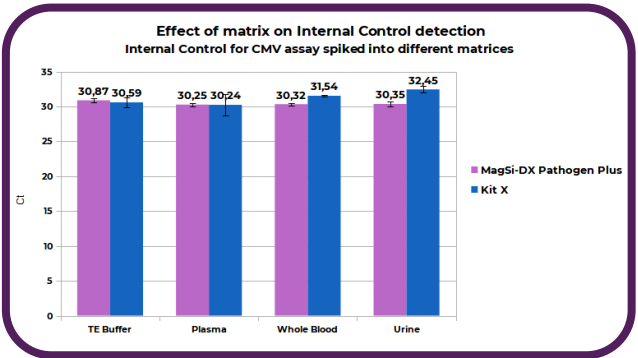


Figure 2. qPCR results obtained from spiking an internal control of a diagnostic PCR kit (CMV) in different sample matrices. Nucleic acids were extracted with MagSi-DX Pathogen Plus and a competitor kit. No significant differences in Cq were found for MagSi-DX Pathogen Plus, indicating absence of leftover PCR inhibitors from the samples.

Quality

- *Suitable for various samples and pathogen types*
- *High recovery without co-purifying inhibitors, enhancing PCR data quality*
- *Suitable for downstream in-vitro diagnostic assays*

Example of use in a diagnostic assay for detection of pathogens causing viral gastroenteritis. Viral DNA and RNA was extracted from faecal control samples. Control samples and PCR kits were used according to instructions for use provided by the manufacturer. Viral nucleic acids could be detected in all positive samples with 100% sensitivity and specificity.

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