



magtivio

MagSi-NA Pathogens

Ultra



Fig.1

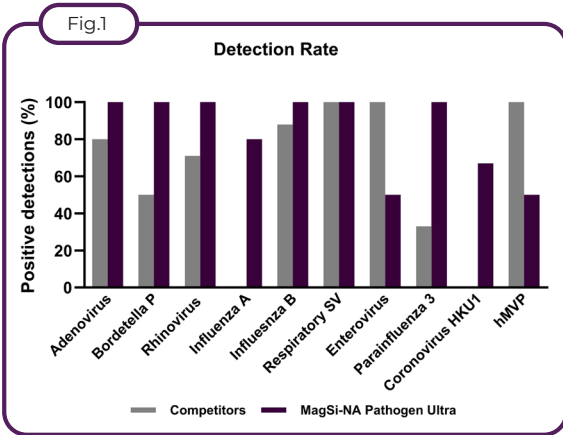


Figure 1. Detection rate by target after extraction with a competitor kit or MagSi-NA Pathogens Ultra. Pools of respiratory samples (nasopharyngeal swabs collected in TransPRO™ Viral Transport Medium (VTM)) were used for extraction either with the competitor kit or the MagSi-NA Pathogens Ultra kit. Extracted samples were analyzed by multiplex real-time PCR assays using Genetic Signatures EasyScreen™ assays. Detection rate is shown as the percentage of positive detections to the total number of positive target results evaluated for each pathogen. Total positives were 28/41 for the competitors and 43/45 for MagSi-NA Pathogens Ultra.

Fig.2

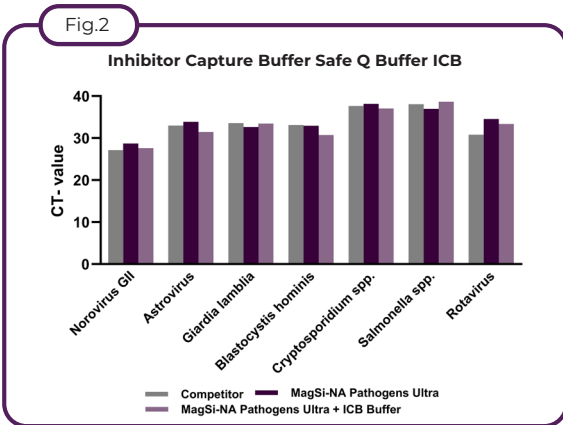


Figure 2. A pool of 15 enteric samples (human stool sampled into Cary-Blair transport medium) was extracted either with or without Inhibitor Capture Buffer (ICB Buffer) and compared to a competitor's extraction kit. Pathogens were detected using multiplex real-time PCR assays using Genetic Signatures EasyScreen™ Enteric detection kits. Comparable or better results were obtained for most pathogens compared to the competitor's extraction kit.

Fig.3

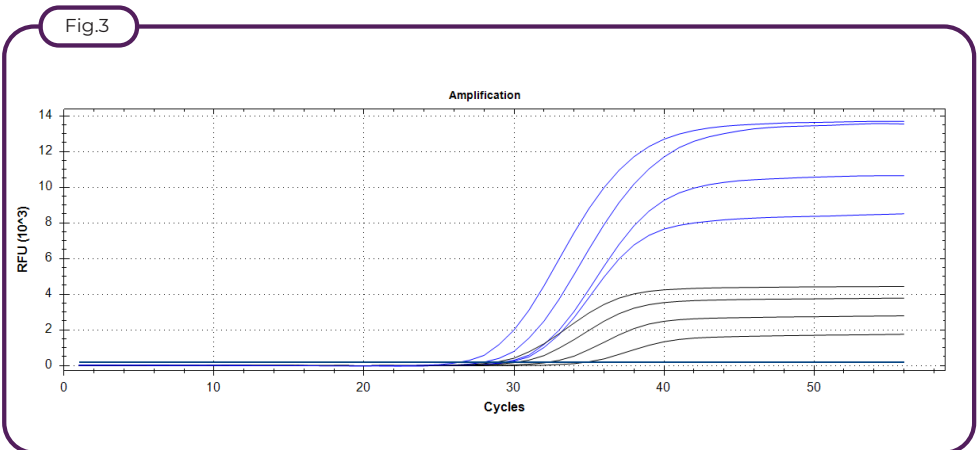


Figure 3. Representative amplification plots for extracted Influenza A positive samples. Blue curves; eluates extracted with the competitor kit. Black curves; eluates extracted with the MagSi-NA Pathogen Ultra kit. Lower CT values and stronger amplification curves were obtained from the MagSi-NA Pathogens Ultra kit indicating improved real time PCR performance and/or reduced inhibition.

Purification of Pathogen Nucleic Acids from Human Samples

A reliable and robust kit for the extraction and purification of nucleic acids is essential for successful subsequent diagnostic workflows. Whether used to identify infectious agents, monitor outbreaks, or study pathogens in research, the quality of nucleic acid (NA) isolation significantly influences the entire diagnostic workflow.

MagSi-NA Pathogens Ultra is a total nucleic acid purification kit for extraction of pathogen DNA and RNA from various human sample materials. The universal purification kit and protocol delivers high quality DNA and RNA which is a prerequisite for sensitive and reproducible downstream analysis such as multiplex real time PCR based assays.

The purification procedure starts with a liquid sample or pre-homogenized sample such as serum/plasma, saliva, suspended stool or eluates obtained from rinsed dried swabs. Liquid samples are incubated with the optimized Lysis Buffer PU. Subsequently the MagSi-PU beads and Binding Buffer PU are added. Following a binding incubation and magnetic separation the MagSi-PU beads are washed one to three times to remove inhibitors and contaminants. Finally the purified total NA are eluted and the purified fraction containing nucleic acids can be used directly for downstream pathogen detection.

Easy to automate

- Minimal accessory requirements
- KingFisher™ / Auto-Pure instrument protocols available
- Consumables for Auto-Pure instruments available
- Compatible with liquid handling robots

Flexibility

- Suitable for various sample materials
- Scalable protocol options for high sample input volume
- Suitable for low, medium and high-throughput automation
- Customisable kit contents for OEM/Private Label

Features

- Short automated extraction protocols available, ranging from 10 minutes per 96 samples to 40 minutes (high sensitivity protocol)
- Consistently high total nucleic acid yield
- Strong magnetic beads enabling rapid magnetic separation even from viscous sample lysates
- Convenient reagent handling: liquid Proteinase K included, buffers ready to use, no additional alcohol required
- Optional accessories such as Inhibitory Capture Buffer (SafeQ ICB) to improve NA extraction from inhibitor rich sample materials like stool

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

Art. No.	Description	Amount
MDKT00330096	MagSi-NA Pathogens Ultra	96 preps
MDKT00330960	MagSi-NA Pathogens Ultra	10 x 96 preps
MDBU00730100	SafeQ ICB	100 mL
MDPL00330010	GP Lysis tubes	10 units
MDPL00330100	GP Lysis tubes	100 units

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