Clean Pathogen DNA & RNA Kit

MAGNETIC BEAD BASED ISOLATION OF PATHOGEN DNA AND RNA FROM VARIOUS SAMPLES

Description

The Clean Pathogen Kit is designed for high throughput and reliable isolation of high quality host genomic DNA, gram positive and negative bacterial DNA, fungal spore DNA, and viral DNA and viral RNA from tissue, urine, serum, and fecal samples.

The kits protocol is fully scalable and due to the use of our magnetic bead purification technology, can besides manual usage, easily be automated once the samples have been lysed on liquid handling workstations (e.g. Dynamic Devices, Hamilton STAR™, Thermo KingFisher™ Flex, Applied Biosystems® MagMAX™, Qiagen BioSprint, and other liquid handling instruments).

Procedure

The system combines the CleanNA technology with our specially formulated buffer system to eliminate the binding of PCR inhibiting compounds, present within the samples, onto our magnetic particles. Following grinding and lysis, the Nucleic Acids are bound to our CleanNA Particles surfaces. The CleanNA magnetic particles are separated from the lysates by using a magnetic separation device. Following a few rapid wash steps to remove trace contaminants, the purified DNA is eluted from the CleanNA particles for downstream applications using an elution buffer.

Downstream Applications

- NGS
- PCR
- qPCR
- Restriction Digestion

Fields of research

- Pathogen Detection
- Women's Health
- Metagenomics
- Vet Diagnostics

Features & Benefits

- Organic Solvents free NA extraction
- Isolated Nucleic Acids are directly suitable for downstream applications
- Isolation of Nucleic Acids from a wide variety of sample types, including tissue and feces
- Kit includes the Clean Disruptor Plate(s) for optimal sample homogenization
- Designed for automation

Ordering Information

Catalog #	Product description	Preps
CPT-DR0096	Clean Pathogen DNA & RNA Kit	96
CPT-DR0384	Clean Pathogen DNA & RNA Kit	384

CLEAN NA

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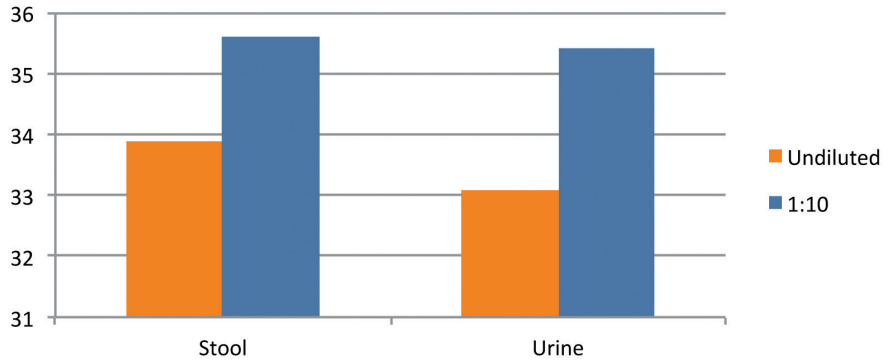
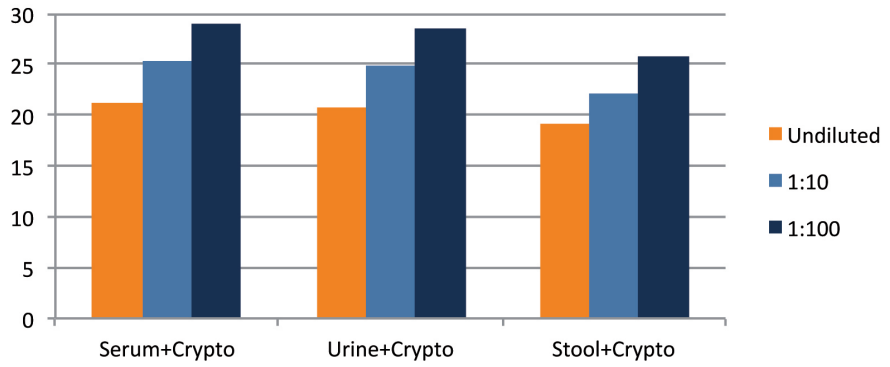
Gram Positive Bacteria



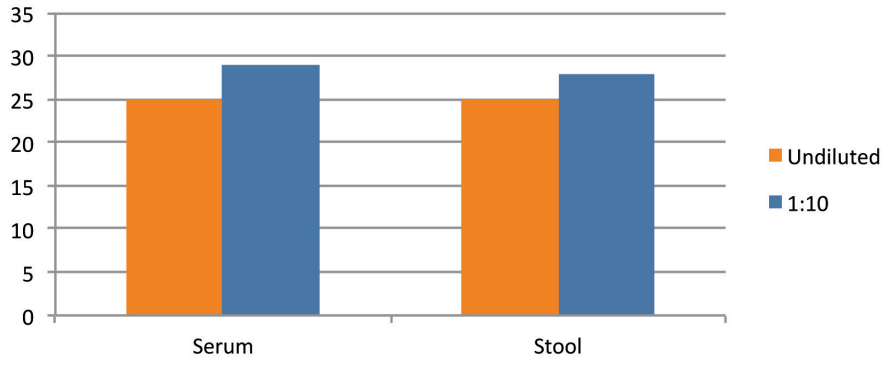
Specified sample types were spiked with Group B Strep cultured samples prior to isolation using the Clean Pathogen Kit. qPCR was performed on the isolated DNA in triplicate in 20 uL SYBR reactions using target organism specific primers. The graph shows the average Ct value of the triplicate data.

Fungal Spores



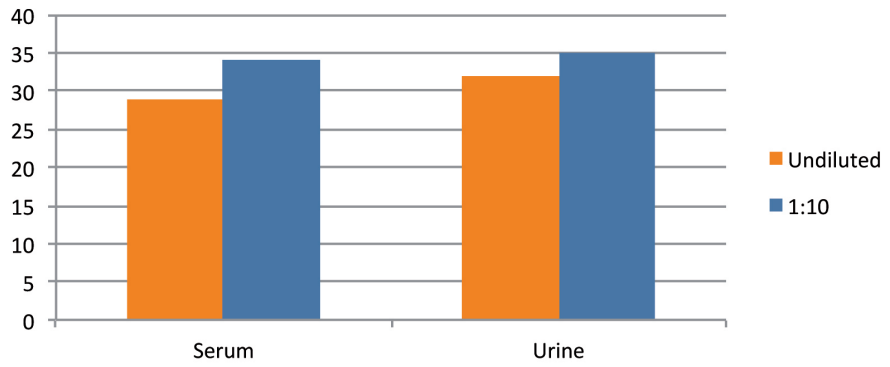
Specified sample types were spiked with Cryptosporidium oocysts prior to isolation using the Clean Pathogen Kit. qPCR was performed on the isolated DNA in triplicate in 20 uL SYBR reactions using target organism specific primers. The graph shows the average Ct value of the triplicate data.

Viral RNA



Specified sample types were spiked with Influenza A/B viruses prior to isolation using the Clean Pathogen Kit. qPCR was performed in triplicate on the isolated RNA in 20 uL SYBR reactions using target organism specific primers. The graph shows the average Ct value of the triplicate data.

Viral DNA



Specified sample types were spiked with HBV viruses prior to isolation using the Clean Pathogen Kit. qPCR was performed on the isolated DNA in triplicate in 20 uL SYBR reactions using target organism specific primers. The graph shows the average Ct value of the triplicate data.

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