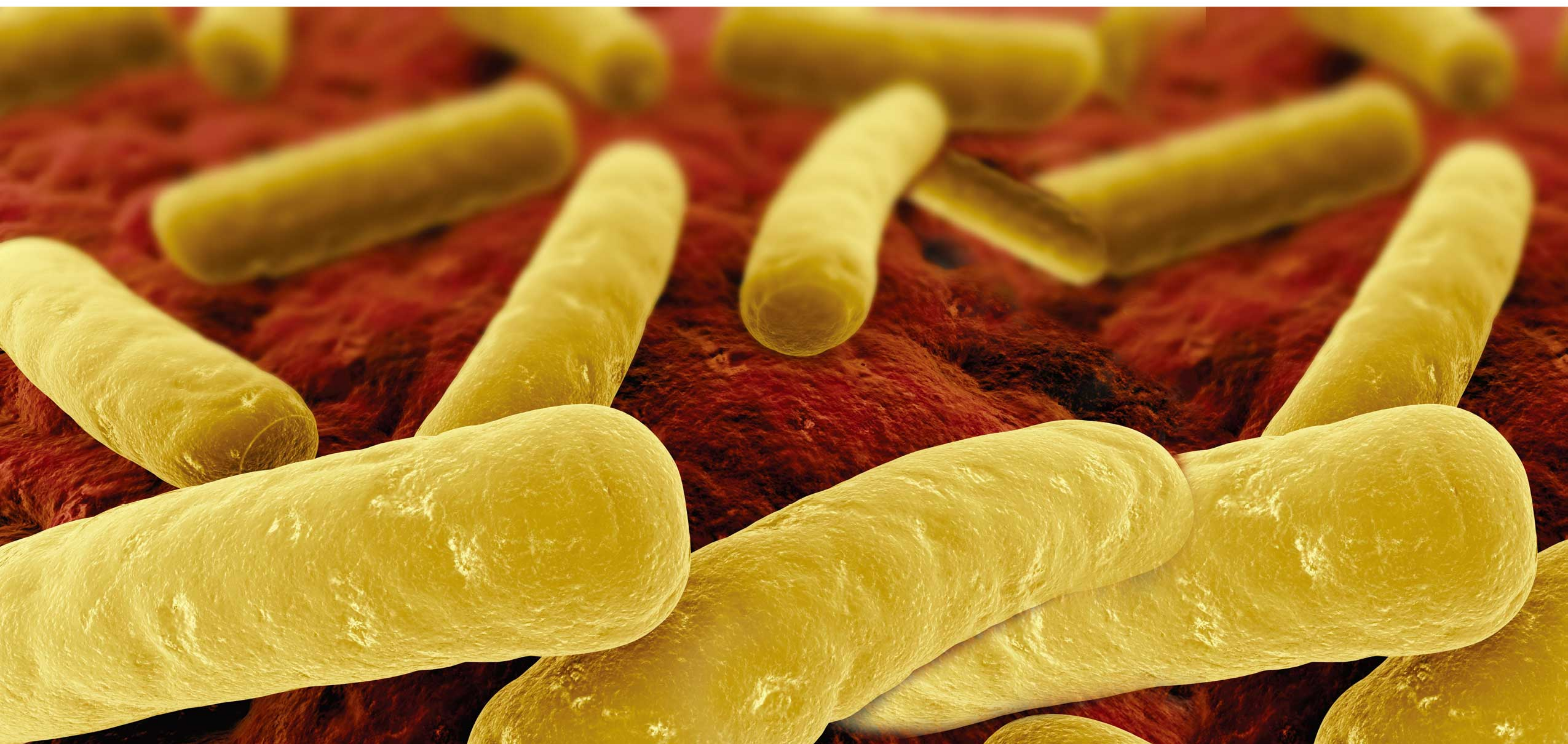


PowerFecal™ DNA Isolation Kit

Get your research moving

- ✓ **Optimized lysis for tough samples** – Isolate pure DNA from stool, gut material, and biosolids
- ✓ **Inhibitor Removal Technology®** – Eliminates inhibitory substances, including lipids, polysaccharides and heme, for DNA that is ready to use in PCR, qPCR and next generation sequencing
- ✓ **Rapid protocol** – Enables isolation of high quality, pure DNA from 250 mg samples in just 30 minutes



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Get your research moving

Description

The PowerFecal™ DNA Isolation Kit is designed for fast and easy purification of DNA from samples high in PCR inhibitors; including stool, gut material, and biosolids. Patented Inhibitor Removal Technology® (IRT) ensures complete removal of inhibitory substances from digested food, heme from lysed red blood cells abundant in stool, and other PCR inhibitors. The DNA isolated is high quality and ready to use in the most demanding downstream applications, including PCR, qPCR and next generation sequencing.

The PowerFecal™ DNA Isolation Kit can be used interchangeably with the PowerSoil® DNA Isolation kit (Catalog # 12888-50 and 12888-100) – both kits can be used to isolate DNA from soil, environmental, stool, gut and biosolid samples. The PowerFecal™ DNA Isolation Kit protocol includes steps optimized for fecal samples, and bead tubes included in this kit are provided separately from bead solution to accomodate samples with increased liquid volume.

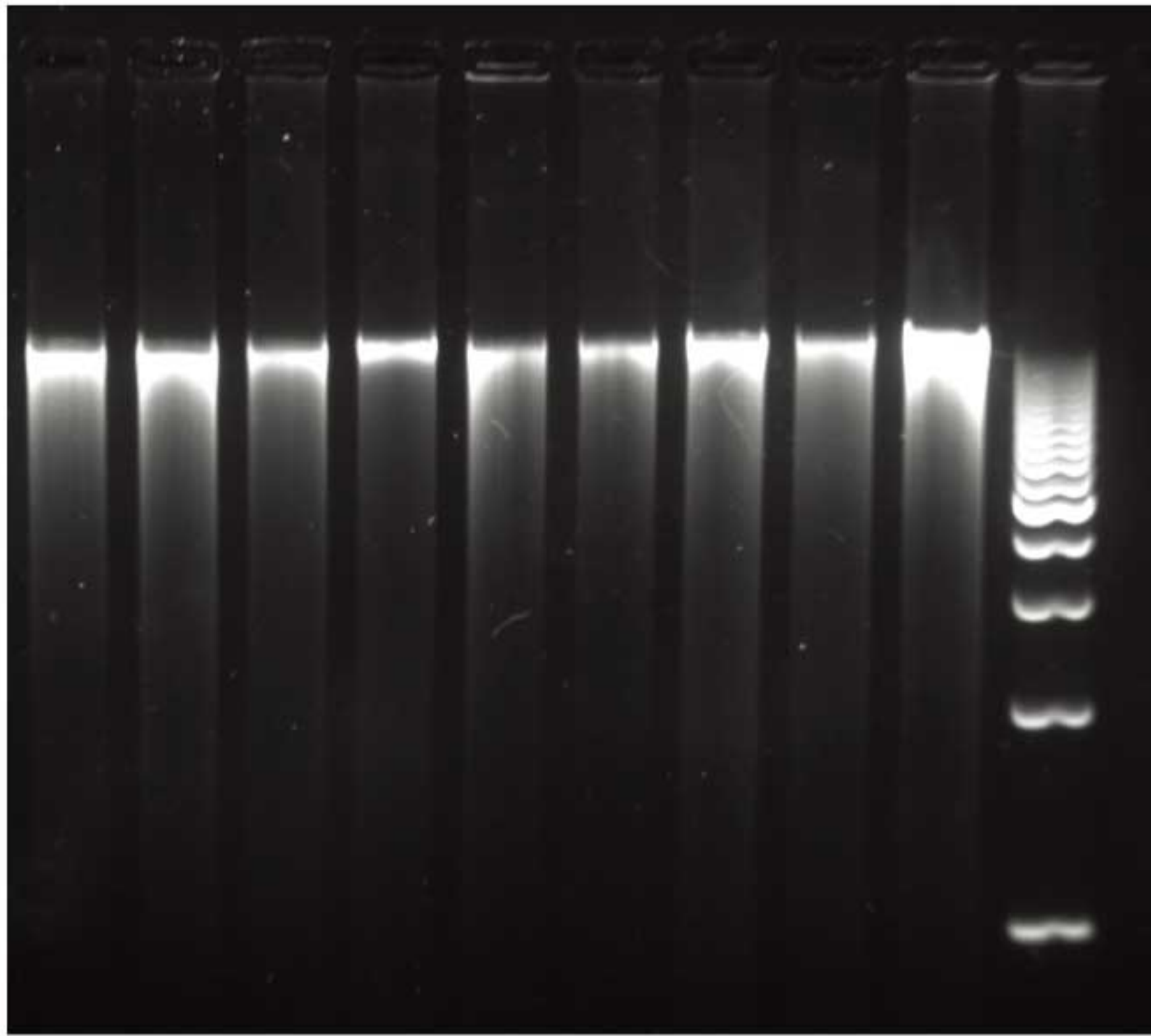


Figure 1. High quality DNA was isolated from neonate stool samples using the PowerFecal™ DNA Isolation Kit. Nine DNA samples isolated from neonate stool were examined on a 1% agarose gel and then used for metagenomic sequencing with Illumina HiSeq technology. Very good depth and quality were observed, indicating pure DNA (data not shown). Data courtesy of B. Firek, University of Pittsburgh School of Medicine, Pittsburgh, PA.

Specifications

Format	Silica Spin Filter Tubes
Method	Bead Beating
Binding Capacity	Up to 20 µg per filter
Throughput	1 - 24 samples
Time	30 minutes
Starting Amount	0.25 g of solid material or 200 µl of liquid
Equipment Required	Vortex and Vortex Adapter

Other solutions for Microbiome Research

PowerMicrobiome™ RNA Isolation Kit

RNA

The PowerMicrobiome™ RNA Isolation Kit is designed for fast and easy purification of total RNA from samples high in PCR inhibitors; including stool, gut material, dried feces, contaminated buccal swabs, and secretions. Patented Inhibitor Removal Technology® (IRT) ensures complete removal of inhibitory substances from digested food, heme from lysed red blood cells abundant in stool, and other PCR inhibitors. Isolated RNA is high quality and ready to use in the most demanding downstream applications, including RT-qPCR and sequencing.

PowerMag® Microbiome RNA/DNA Isolation Kit

High-throughput

The PowerMag® Microbiome RNA/DNA Isolation Kit is designed for automated isolation of nucleic acids from stool, biosolids and gut material. The protocol is designed for isolation of RNA and DNA from up to 0.25 g of sample and includes patented Inhibitor Removal Technology® to remove lipids, polysaccharides, heme and other PCR inhibitors.

Novel ClearMag® magnetic particle technology enables purification of RNA and DNA without the typical surface binding to the beads, eliminating the adsorption of organic inhibitors that is typical of other magnetic bead technologies, and facilitating isolation of pure nucleic acids. In addition, neither chaotropic salts nor ethanol are used in the binding and washing steps, removing a second source of contamination that can inhibit enzymatic reactions.

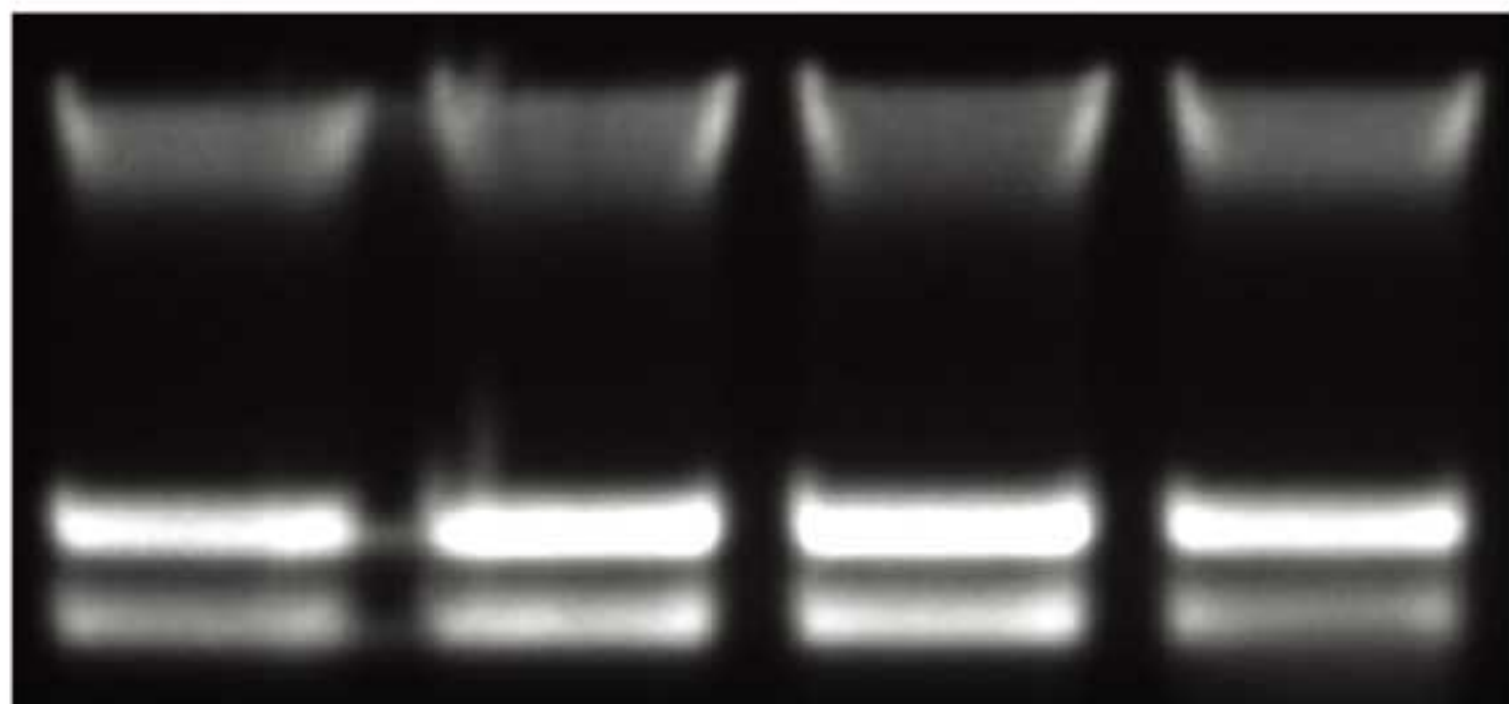


Figure 1. High quality, intact RNA was isolated from samples (0.25 g) spiked with Enterococcus using the PowerMag® Microbiome RNA/DNA Isolation Kit on the epMotion® 5075 TMX. No differences in yield or quality were observed between the four replicate samples.

Order information

Catalog No.	Description	Quantity
12830-50	PowerFecal™ DNA Isolation Kit	50 preps
26000-50	PowerMicrobiome™ RNA Isolation Kit	50 preps
27500-4-EP	PowerMag® Microbiome RNA/DNA Isolation Kit (Optimized for epMotion®)	4 x 96 preps
27600-4-KF	PowerMag® Microbiome RNA/DNA Isolation Kit (Optimized for KingFisher®)	4 x 96 preps

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