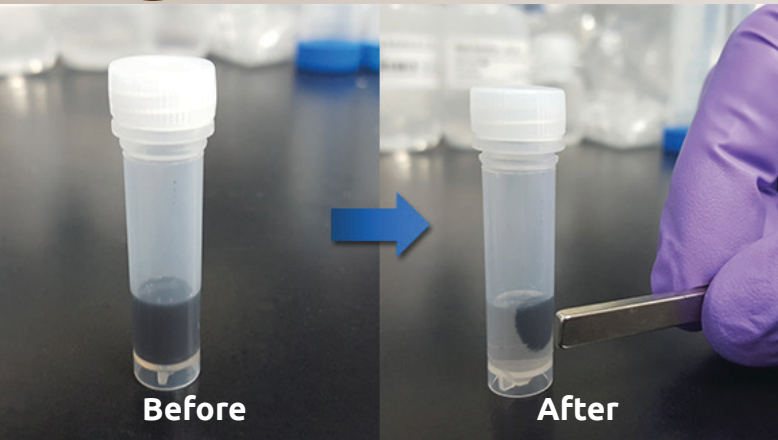


# High Throughput Stool DNA Isolation Kit



Magnetic Bead System - Automation



- ✓ Isolate high quality and quantity DNA from fresh, frozen or preserved stool samples
- ✓ Fast and easy processing using a magnetic bead system
- ✓ Robust Lysis System (chemical + mechanical homogenization)
- ✓ Consistent, high yields of inhibitor-free DNA (up to 50kb)

Purification is based on the use of magnetic beads that bind DNA under optimized DNA binding conditions.

Preserved or fresh (or frozen) stool samples are mixed with a robust lysis buffer in the provided beads tubes for the most effective homogenization. Magnetic Bead Suspensions are added to the supernatant and then placed on the magnetic separation rack.

Only the DNA will bind to the magnetic beads, while most of the proteins will be removed in the supernatant. The bound DNA is then washed with 70% ethanol in order to remove any remaining impurities, and the purified total DNA is eluted inhibitor-free.

The purified DNA can be used in a number of downstream applications.

## High Integrity DNA

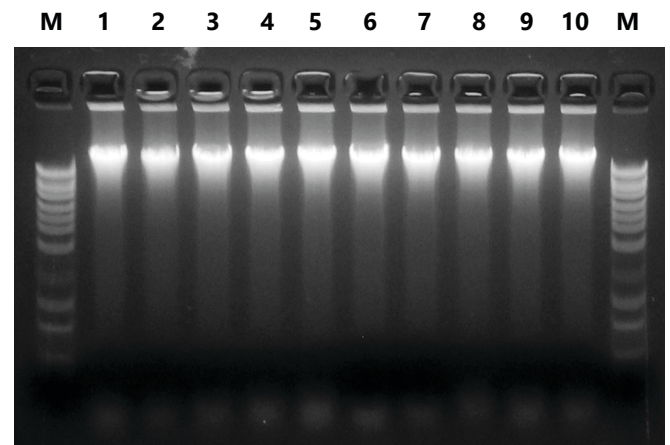


Figure 1. High Quality DNA Isolated from Preserved Stool Samples

## Application Ready DNA

Genotyping

DNA Microarray

Next-Gen Sequencing

SNP Analysis

## Consistent Isolation of High Quality DNA

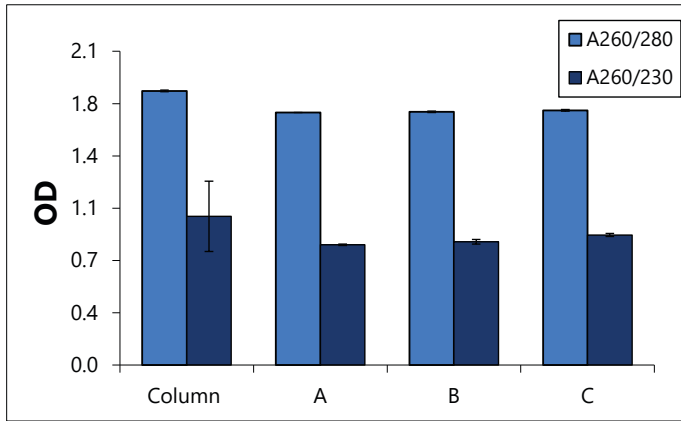


Figure 2. Comparison of A260/280 and A260/230 ratios. Magnetic Bead Kit = A, B and C.

## Inhibitor-Free DNA Confirmed by Real-Time PCR

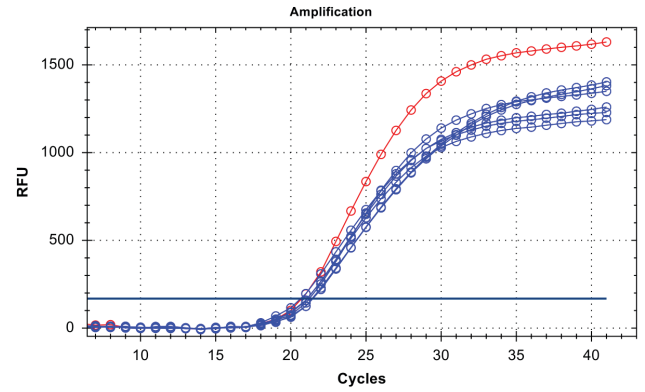


Figure 3. High Quality DNA confirmed by Real-time PCR.

## Top Genus Classification Results

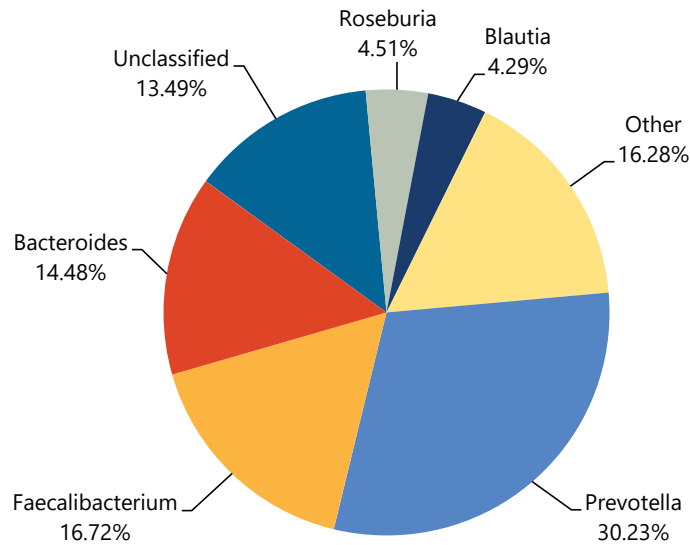


Figure 4. 16S Metagenomics data generated by Illumina MiSeq.

### Ordering information

Description	Size	Cat. Number
Stool DNA Isolation Kit (Magnetic Bead System)	50 preps	55700
Fecal DNA Collection & Preservation Mini Tubes	12 units	27650
Stool Nucleic Acid Collection & Preservation Tubes	50 units	45660

v6.0

