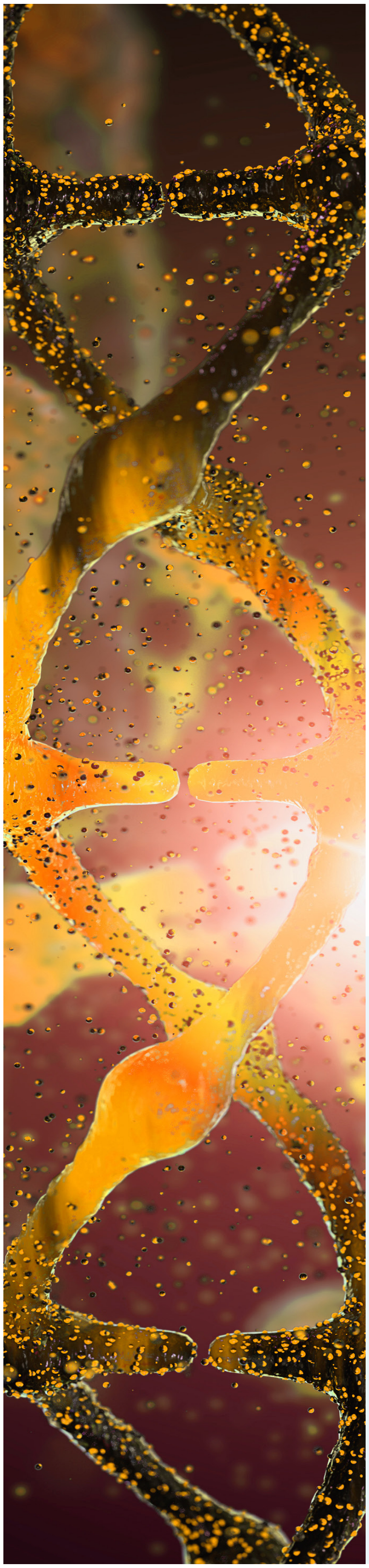


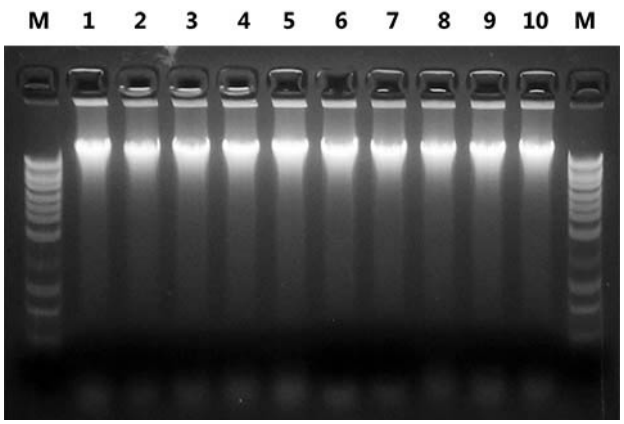
Stool DNA Isolation Kits (Magnetic Bead System)

CAT. 55700, 63100

FAST AND EASY PROCESSING USING A MAGNETIC BEAD SYSTEM. ROBUST LYSIS SYSTEM (CHEMICAL LYSIS COMBINED WITH A MECHANICAL HOMOGENIZATION)

- Simultaneous isolation of both host DNA and microbial DNA (universal protocol)
- Fully compatible with Norgen's Stool Nucleic Acid Collection and Transport Tubes
- High quality DNA for sensitive downstream applications including PCR, qPCR, Sequencing and microarray
- Compatible with liquid handing automation system, such as Hamilton Vantage
- Compatible with Magnetic rod system such as KingFisher and NorMag

Advantages You Will Bring to Your Lab

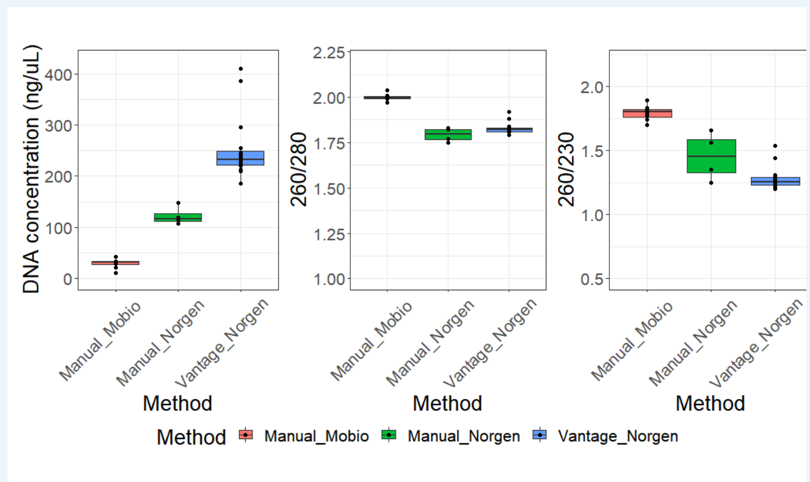


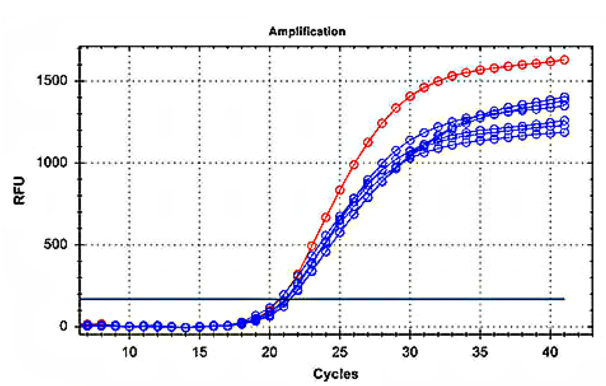
HIGH MOLECULAR WEIGHT DNA ISOLATED FROM PRESERVED STOOL SAMPLES

Figure 1. High Quality DNA Isolated from Preserved Stool Samples. DNA was isolated from 200 µL preserved stool samples using Norgen's Stool DNA Isolation Kit (Magnetic Bead System). For evaluation, 10 µL from 75 µL of elution were run on 1X TAE 1.2% agarose gel. Stool samples were preserved in Norgen's Stool Nucleic Acid Collection and Transport Tubes (Cat. 45630, 45660). M = Norgen's HighRanger DNA Ladder (Cat. 11900).

HIGH DNA QUANTITY & QUALITY WERE GENERATED BY THE STOOL DNA ISOLATION KIT

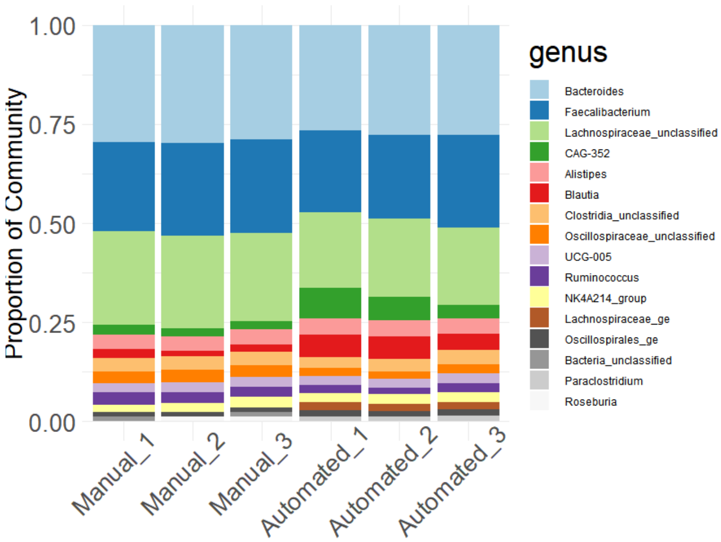
Figure 2: DNA concentration and quality as measured by nanodrop. DNA was isolated from 200 uL of preserved stool using Norgens Stool DNA Isoaltion 96-well (Magnetic Bead System) (Cat. 63100).





HIGH QUALITY DNA CONFIRMED BY REAL-TIME PCR

Figure 3. High Quality DNA confirmed by Real-time PCR. DNA was isolated from 200 mg stool using Norgen's Stool DNA Isolation Kit (Magnetic Bead System) and Norgen's Stool DNA Isolation Kit (column format). The quality of the purified DNA was evaluated by using 8 µL of stool DNA (total PCR reaction volume was 20 µL) to detect 16S rRNA from the different stool samples. No PCR inhibition was observed from DNA isolated using Norgen's Stool DNA Isolation Kit (Magnetic Bead System) (blue circles), similar to the DNA isolated using Norgen's Stool DNA Isolation Kit (Column method) (red circles), indicating the excellent isolation consistency and the quality of the stool DNA for downstream applications.

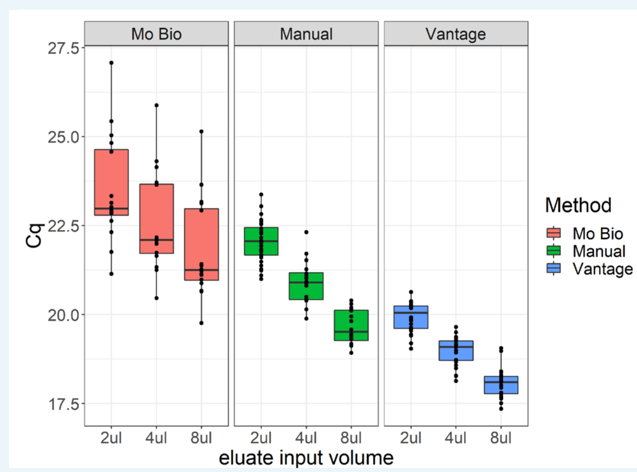


STOOL MICROBIOMES WERE SUCCESSFULLY SEQUENCED BY ILLUMINA MISEQ

Figure 4. Community composition as determined by illumina sequencing with V3-V4 primers. Manual_1:3 are replicates extractions using the Norgen manual method, Automated_1:3 are replicated extraction using a Hamilton Vantage to automate the extractions. There is good replicability between sample types and good agreement between the community as revealed through manual and automated DNA isolation. DNA was isolated from 200 uL of preserved stool using Norgens Stool DNA Isoaltion 96-well (Magnetic Bead System) (Cat. 63100).

HIGH QUALITY DNA CONFIRMED BY REAL-TIME PCR

Figure 5. 16S qPCR results using different volumes of eluates from 3 isolation methods. Cq's decrease with increasing template volume indicating negligible PCR inhibition. DNA was isolated from 200 uL of preserved stool using Norgens Stool DNA Isoaltion 96-well (Magnetic Bead System) (Cat. 63100). Taqman qPCR for the 16S gene was performed in 20 uL total reaction volume.



Kit Specifications

Description	Specifications
Maximum Stool Input	0.2 mL preserved stool 0.2 g fresh or frozen stool
Type of Stool Processed	Frozen, fresh or preserved stool
Average Yield from 0.25 mL of stool*	15-25 µg
Average Purity (OD260/280)	1.7 - 1.8
Time to Complete Purifications	35 minutes (Cat. 55700) 50 minutes (Cat. 63100)

*Average DNA yield will vary depending on the donor

Ordering Information

Description	Preps	Cat. #
Magnetic Bead System	50 Preps	55700
High Throughput Magnetic Bead System	2 x 96 Well Plate	63100

Related Products

Description	Prep Size	Cat. #
Stool Nucleic Acid Collection And Preservation Tubes	50 Tubes	45660
Stool Total RNA Purification Kit	50 Prep	49500
Norgen Next Generation Sequencing Services	Call 1-866-Norgenb or Visit norgenbiotek.com	
NorMag16 (115V, 230V)	16 preps	72715/72720
NorMag96 (115V, 230V)	96 preps	72705/72710

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