

## Stool DNA Isolation Kit

Rapid and simple purification of bacterial and host DNA from stool and fecal samples



- ✓ Simultaneous isolation of both host DNA and microbial DNA (universal protocol)
- ✓ Eliminates PCR inhibitors including humic acids
- ✓ Fully compatible with Norgen's Stool Nucleic Acid Collection and Transport Tubes
- ✓ High quality DNA for sensitive downstream applications including PCR, qPCR, Sequencing and microarra
- ✓ 96-Well format is also available

### Superior Stool DNA Quality and Yield

Convenient universal DNA protocol for total human and microorganism DNA isolation

Rapid procedure (< 30 minutes) with a single filter column (Competitor Z used 3 columns)

Higher DNA quality and yield than the competitor

### True Total DNA Purification

Isolate microorganism and human DNA

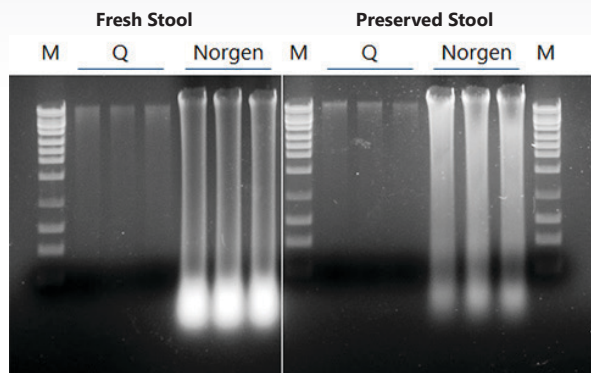
Highly concentrated DNA allows for detection in processed DNA from food in stool

### Highest DNA Purity and Concentration for Downstream Applications

Purified DNA can be used directly for PCR to detect microorganisms

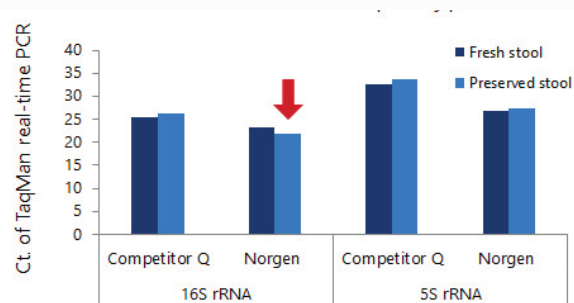
Highly concentrated DNA can enhance the detection sensitivity

## Higher Yields of DNA than Competitor Q



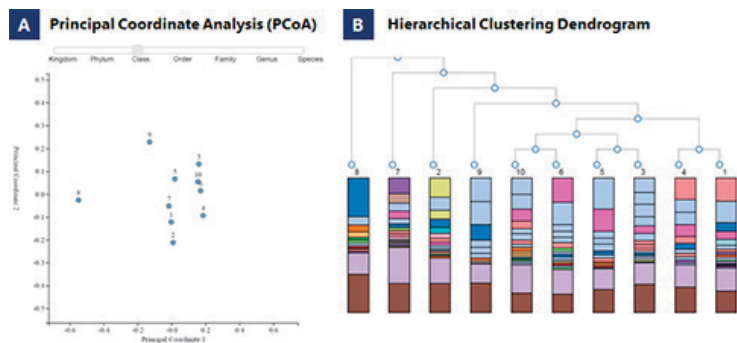
**Figure 1. Higher Yields of DNA than Competitor Q.** Stool DNA was isolated from 200 mg of fresh or preserved stool samples using Norgen's Stool DNA Isolation Kit and Competitor Q's Kit. For evaluation, 10  $\mu$ L of DNA from the elution was run on 1X TAE 1.2% agarose gel. Norgen's kit isolated much higher yields of DNA. \*Stool was collected using Norgen's Stool Nucleic Acid Collection and Preservation tubes (Cat. 45660). Marker = Norgen's HighRanger DNA Ladder (Cat. 11900).

## Better 16S rRNA detection from DNA



**Figure 2. Better 16S rRNA detection from DNA isolated using Norgen's Stool DNA Preservative and Stool DNA Isolation Kit.** Two microlitres of stool DNA was used in a 20  $\mu$ L PCR reaction volume. Stool that was preserved using Norgen's Stool DNA Preservative and isolated using Norgen's Stool DNA Isolation Kit showed better 16S rRNA detection as compared to fresh stool samples.

## Principal Coordinate Analysis and Hierarchical clustering



**Figure 5. Better 16S rRNA detection from DNA isolated using Norgen's Stool DNA Preservative and Stool DNA Isolation Kit.** Two microlitres of stool DNA was used in a 20  $\mu$ L PCR reaction volume. Stool that was preserved using Norgen's Stool DNA Preservative and isolated using Norgen's Stool DNA Isolation Kit showed better 16S rRNA detection as compared to fresh stool samples.

## Ordering Information

Kit Name	Size	Cat. No
Stool DNA Isolation Kit	50 preps	27600
Stool DNA Isolation 96-well Kit	2 x 96 well plates	65600

## Related Products

Kit Name	Size	Cat. No
Stool Nucleic Acid Collection and Preservation Tube	50 tubes	45630
Stool DNA Isolation Kit (Magnetic Bead System)	50 preps	27300
Stool Total RNA Purification Kit	50 preps	45600
Fecal DNA Collection & Preservation Mini Tubes	50 tubes	27650
Stool Nucleic Acid Isolation Kit	50 preps	45600

Visit our website: [www.norgenbiotek.com](http://www.norgenbiotek.com) to view our complete line of reagents and innovative sample preparation kits.

