

# Stool Collection and Preservation

Improve reproducibility & minimize bias in microbiome profiles

## 1 COLLECT WITH CONVENIENCE

- ✓ Easy and user-friendly sample collection into tubes or with swabs
- ✓ Available as a system for home use, complete with collection paper, gloves & other collection accessories

## 2 PRESERVE WITH CONFIDENCE

- ✓ Preserve nucleic acids for sensitive downstream applications
- ✓ Stabilize the microbiome profile from the point of collection
- ✓ Store DNA for up to 2 years at room temperature
- ✓ Store RNA for up to 7 days at room temperature



Norgen also offers comprehensive  
**NGS Services**

For more info contact  
[services@norgenbiotek.com](mailto:services@norgenbiotek.com)

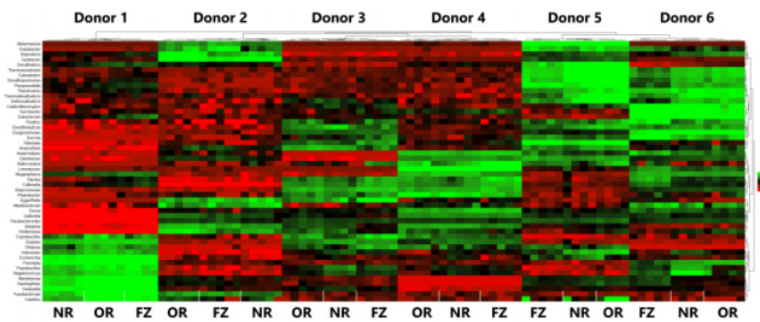


### 3 TRANSPORT WITH PEACE OF MIND

- ✓ Prevent microbial growth and inactive viruses for safe and simple transport
- ✓ Minimize effects of fluctuating temperatures
- ✓ Ship at room temperature and eliminate odours

### 4 APPLICATIONS WITH INTEGRITY

- ✓ Compatible with most commercially available DNA and RNA isolation kits
- ✓ Obtain high-quality and inhibitor-free DNA and RNA using commercial kits including Norgen's optimized isolation kits
- ✓ Highest quality of nucleic acids for use with with any application, including NGS, qPCR, genotyping and more
- ✓ Ideal preservative to accurately maintain the original microbiome profile



**Figure 1.** Heatmap illustrating the distribution of the major genera under three different storage conditions for all donors. Storage conditions are indicated by NR (Norgen), OR (OMNigene GUT) and FZ (Frozen at -80°C). The dendrogram shows distinct clustering according to donor rather than the method used.

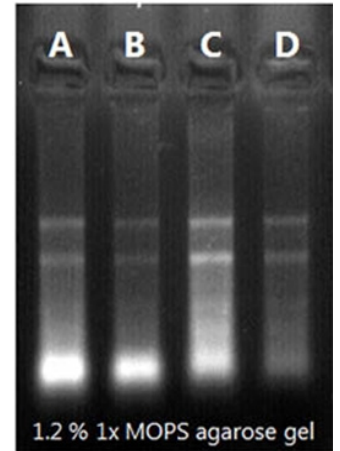
#### ► Comprehensive products for stool collection and processing

We offer a full work-flow system of stool-specific products in order to ensure high-quality, inhibitor-free samples for your downstream applications. Inquire about our Stool Isolation Kits for your DNA or RNA isolation needs.

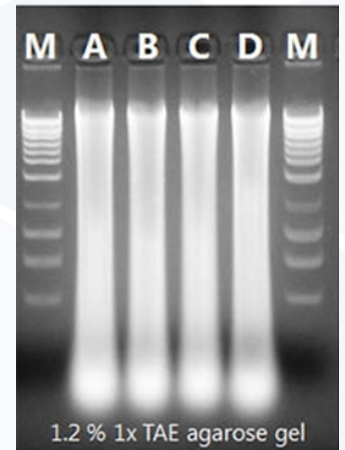
#### Ordering Information

Description	Size	Cat. Number
Fecal DNA Collection and Preservation Mini Tubes	12 tubes	27650
Stool Nucleic Acid Collection and Preservation Tubes	1 tube	45630
Stool Nucleic Acid Collection and Preservation Tubes	50 tubes	45660
Stool Nucleic Acid Collection and Preservation System	50 devices	63700
Fecal Swab Collection and Preservation System	50 devices	45670

### 7 Days Stool RNA RT



### 27 Months Stool DNA RT



**Figure 2. Integrity of Total Stool DNA and RNA Isolated from Preserved Stool Samples.** DNA and RNA were isolated from 200 µL of preserved stool from 4 different donors (lanes A to D) stored at room temperature at the indicated time points (DNA at 27 months and RNA at 7 days) using Norgen's Stool Nucleic Acid Isolation Kit (Cat# 45600). Next, 10 µL from the 75 µL eluted nucleic acid was loaded onto a gel for visual analysis. High integrity stool DNA was isolated from preserved stool samples that were stored at room temperature for 27 months, and high integrity RNA was isolated from stool samples stored for 7 days at ambient temperature. Lane M is Norgen's HighRanger 1 kb DNA Ladder (Cat. 11900).