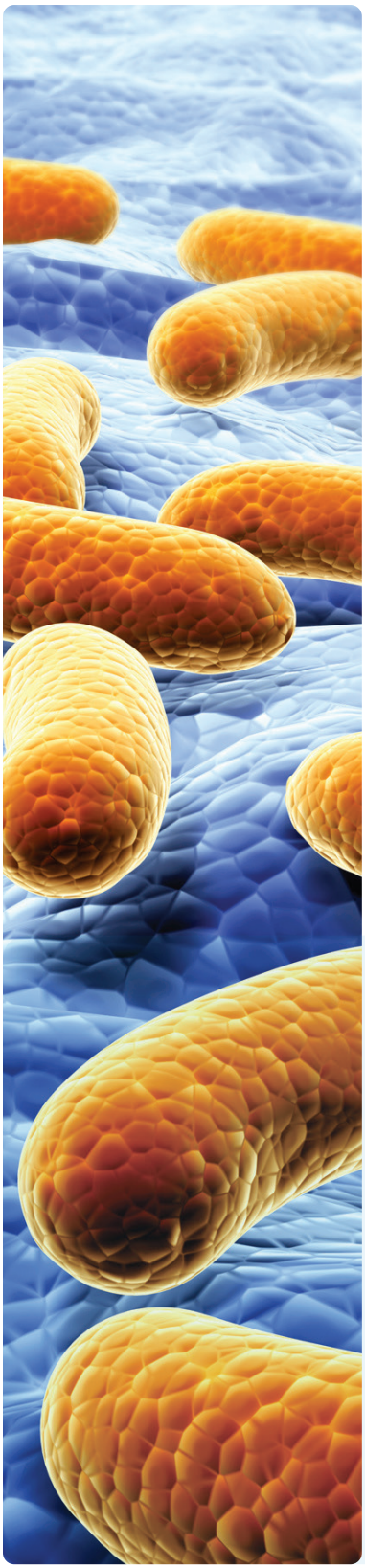


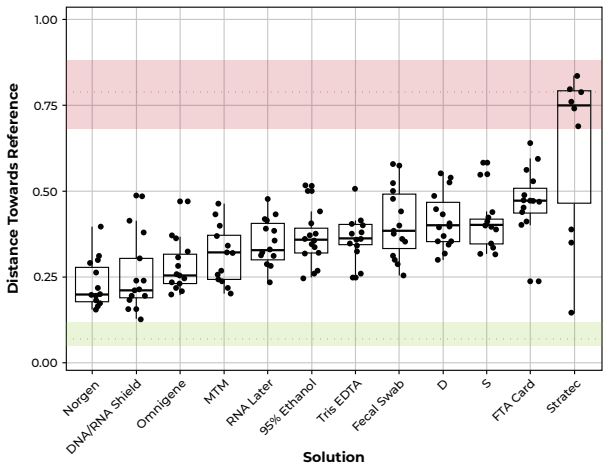
# Stool Nucleic Acid Collection and Preservation System

**CAT. 63700, 45660, Dx45660**

All-in-one system for the rapid and simple collection, preservation, and room temperature storage and shipping of stool samples.

- Complete, user-friendly system to collect, preserve and transport stool samples
- Each clamshell contains nitrile gloves, alcohol swabs, Fe-Col® Collection Paper, and Norgen's Stool Nucleic Acid Collection and Preservation Tube (Cat. 45660) containing Norgen's Stool Preservative
- The preservative provides sample homogeneity eliminating sample variability
- Preserve and transport DNA & RNA safely at ambient temperature
- No cold shipping/storage needed - hassle-free and cost effective
- Isolate nucleic acids for any application including 16S NGS
- Robust preservation over a range of temperatures
- Customizable with various accessories for easy and safe collection
- Eliminates odor and renders samples safe and non-infectious

# Advantages You Will Bring to Your Lab

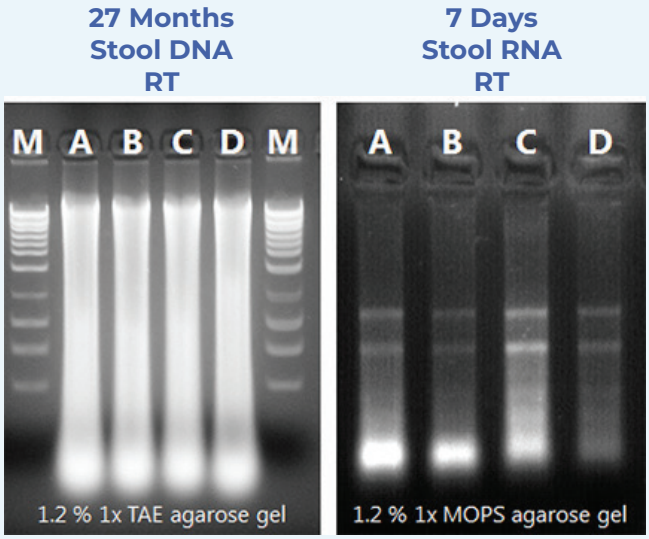


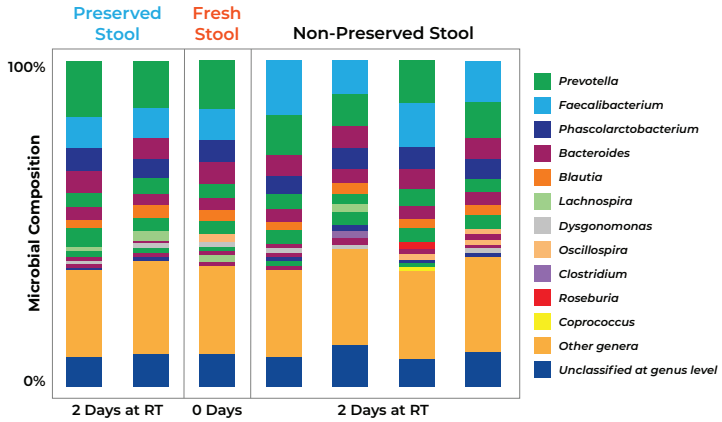

## NORGEN'S BEST-IN-CLASS PRESERVATION

**Figure 1. Norgen's Best-In-Class Preservation.** Summary of community shifts in response to stabilizing solutions over a 14-day storage period. Bray-Curtis distance towards the reference for each patient grouped by stabilizing solution. Median and 5th-to-95th percentile ranges are shown for both interaliquot and interpatient variability (adapted from Plauzolles et al, 2022). Norgen is the most similar to frozen stool samples, over 11 other sample collection and storage methods.

## INTEGRITY OF TOTAL STOOL DNA AND RNA ISOLATED FROM PRE-SERVED STOOL SAMPLES

**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).



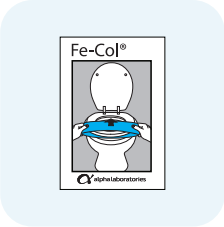

## HIERARCHICAL CLUSTERING OF STOOL SAMPLES AT PHYLUM LEVEL UNDER DIFFERENT STORAGE CONDITIONS

**Figure 3. Hierarchical Clustering of Stool Samples at Phylum Level Under Different Storage Conditions.** The microbial composition from the stool samples preserved in Norgens Stool Nucleic Acid Collection and Preservation Tubes (Cat. 45660) did not differ significantly to that of controls (fresh stool from Day 0 at RT) over a 2 day period while non-preserved stool samples showed a distance in the dendrogram from the original stool profile.

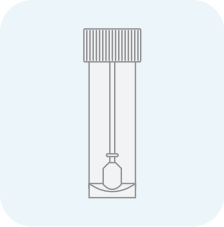
# Kit Components & Collection Procedure

## KIT COMPONENTS

Nitrile Gloves




Fe-Col® Collection Paper



Stool Nucleic Acid Collection and Preservation Tube

Alcohol Swabs

Instruction Card

## SAMPLE COLLECTION AND PRESERVATION PROCEDURE

**1.**

Put on the Nitrile Gloves before starting any collection.

**2.**

Unscrew the cap of the Stool Nucleic Acid Collection and Preservation tube.

**3.**

Open the Fe-Col® Collection Paper and follow the instructions included inside the device.

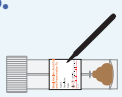
**4.**

Use the spoon to scoop the stool sample and transfer into the tube until the liquid reaches the "Fill To This Line" (Do not over fill).

**5.**

Tighten the cap and shake gently until the stool is thoroughly mixed with the preservative. Cleanup any debris with the Alcohol Swab.

**6.**



Record donor information on the label of the tube. Submit the specimen to the lab by shipping at room temperature.

## COLLECTION & PRESERVATION TUBE SPECIFICATIONS

| Description | Specs |
|---|---|
| Stool input | 2 g |
| Stability of stool nucleic acids at room temperature | 2 years for DNA, Up to 7 days for RNA |
| Diameter of device | 20 mm |
| Length of device | 77 mm |
| Length of device without cap | 76 mm |
| Spoon | Pre-attached to cap |
| Tube plastic | Transparent polypropylene |

## RECENT PUBLICATIONS

Fernandes, L. A., de Souza, A. O., Nukui, Y., Marcusso, R. M., de Oliveira, A. C. P., Casseb, J., Clissa, P. B., Villas-Boas, S. G., & Sanabani, S. S. (2026). Gut Microbiome Dysbiosis is Associated With Human T-Lymphotropic Virus Type 1 (HTLV-1) Infection and Disease Progression to HTLV-1-Associated Myelopathy/Tropical Spastic Paraparesis: A Cross-Sectional Study. Smart medicine, 5(1), e70024. **https://doi.org/10.1002/smmd.70024**

Y.Chen, R.Duan, C.Zhang, et al. "Maternal Preconception Antibiotic Exposure Disrupts Microbial Succession: A Transgenerational Risk for Offspring Gut Mucosal Immaturity and Colitis Susceptibility." Advanced Science (2026): e16931. **https://doi.org/10.1002/advs.202516931**

## Ordering Information

| Description | Size | Cat. # |
|---|---|---|
| Stool Nucleic Acid Collection and Preservation System | 50 devices | 63700 |
| Stool Nucleic Acid Collection and Preservation Tubes | 50 tubes | 45660 |
| Stool Nucleic Acid Collection and Preservation Tubes Dx CE | 50 tubes | Dx45660 |
| Fecal DNA Collection & Preservation Mini Tubes | 12 tubes | 27650 |
| Fecal Swab Collection and Preservation System | 50 devices | 45670 |

# Order Today!

Order Norgen's Stool Nucleic Acid Collection and Preservation System today to help improve your research performance and workflow.

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| Related Products | Prep Size | Cat. # |
|---|---|---|
| Stool Nucleic Acid Isolation Kit | 50 Prep | 45600 |
| Stool Total RNA Purification Kit | 50 Prep | 49500 |
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