

# Stool Nucleic Acid Collection and Preservation System

CAT. 63700, 45660, Dx45660



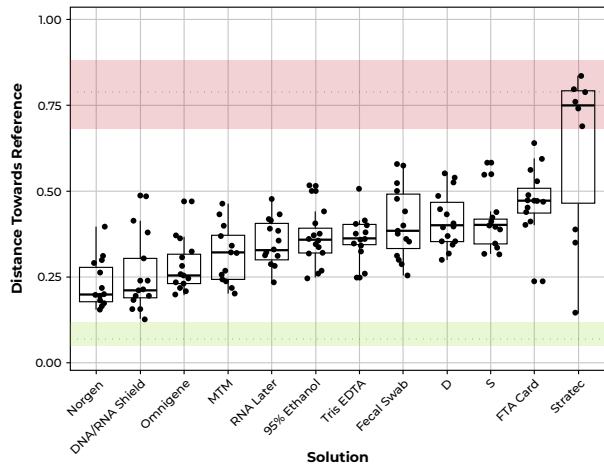
All-in-one system for the rapid and simple collection, preservation, and room temperature storage and shipping of stool samples.

- ✓ 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



[norgenbiotek.com](http://norgenbiotek.com)

# Advantages You Will Bring to Your Lab



## NORGEN'S BEST-IN-CLASS PRESERVATION

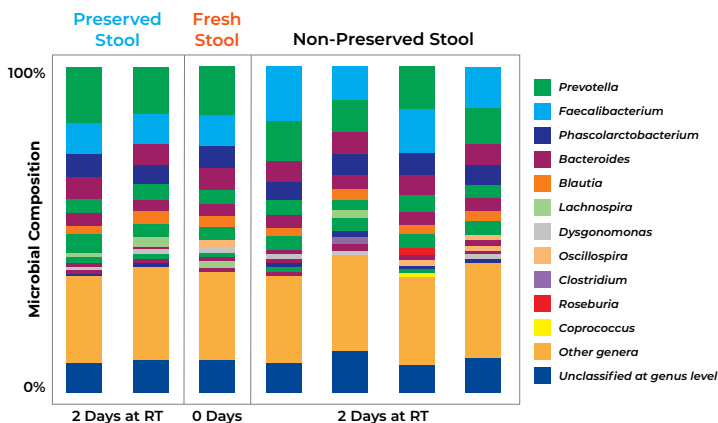
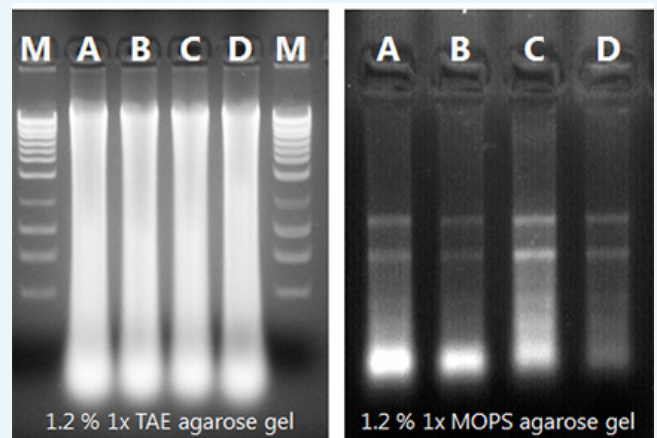
**Figure 1. Norgen's Best-In-Class Preservation.** Summary of community shifts in response to stabilizing solutions over a 14-day storage period. Bray-Curtis distance towards the reference for each patient grouped by stabilizing solution. Median and 5th-to-95th percentile ranges are shown for both interaliquot 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 PRESERVED STOOL SAMPLES

**Figure 2. Integrity of Total Stool DNA and RNA Isolated from Preserved Stool Samples.** DNA and RNA were isolated from 200  $\mu$ L 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  $\mu$ L from the 75  $\mu$ L 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).

27 Months  
Stool DNA  
RT

7 Days  
Stool RNA  
RT



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

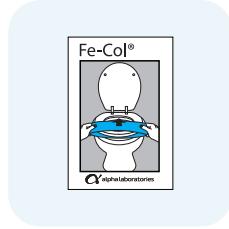
**Figure 3. Hierarchical Clustering of Stool Samples at Phylum Level Under Different Storage Conditions.** The microbial composition from the stool samples preserved in Norgens Stool Nucleic Acid Collection and Preservation Tubes (Cat. 45660) did not differ significantly to that of controls (fresh stool 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

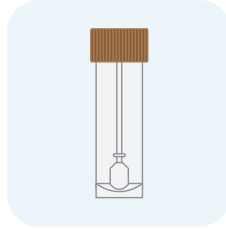
## KIT COMPONENTS



Nitrile Gloves



Fe-Col®  
Collection Paper



Stool Nucleic Acid  
Collection and  
Preservation Tube



Alcohol Swabs



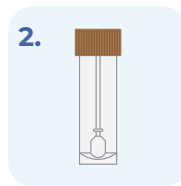
Instruction Card

## SAMPLE COLLECTION AND PRESERVATION PROCEDURE



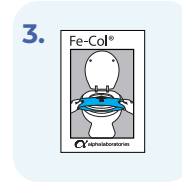
1.

Put on the Nitrile Gloves before starting any collection.



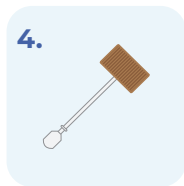
2.

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



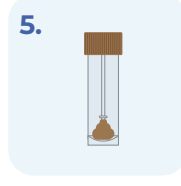
3.

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



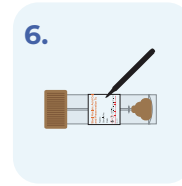
4.

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

## SELECT PUBLICATIONS

Publication Title	Authors	Journal	Year
Growth of late preterm infants fed nutrient-enriched formula to 120 days corrected age—A randomized controlled trial	Best KP, Yelland LN, Collins CT, McPhee AJ, Rogers GB, Choo J, Gibson RA, MurguiaPeniche T, Varghese J, Cooper TR and Makrides M (2023)	Front. Pediatr. 11:1146089	2023
Faecal microbiome-based machine learning for multi-class disease diagnosis	Su, Q., Liu, Q., Lau, R.I. et al. Faecal microbiome-based machine learning for multi-class disease diagnosis. Nat Commun 13, 6818 (2022).	Nature Communications	2022

# 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 <b>CE</b>	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.

### Three ways to order

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COLLECTION & PRESERVATION



EXTRACTION



APPLICATION

Related Products	Prep Size	Cat. #
Stool Nucleic Acid Isolation Kit	50 Prep	45600
Stool Total RNA Purification Kit	50 Prep	49500
Norgen Next Generation Sequencing Services	Call 1-866-NORGENB or Visit <a href="http://norgenbiotek.com">norgenbiotek.com</a>	



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