

Fecal Swab Collection And Preservation System

CAT. 45670-B

A RAPID AND SIMPLE METHOD FOR THE COLLECTION, PRESERVATION AND SHIPPING OF STOOL SAMPLES

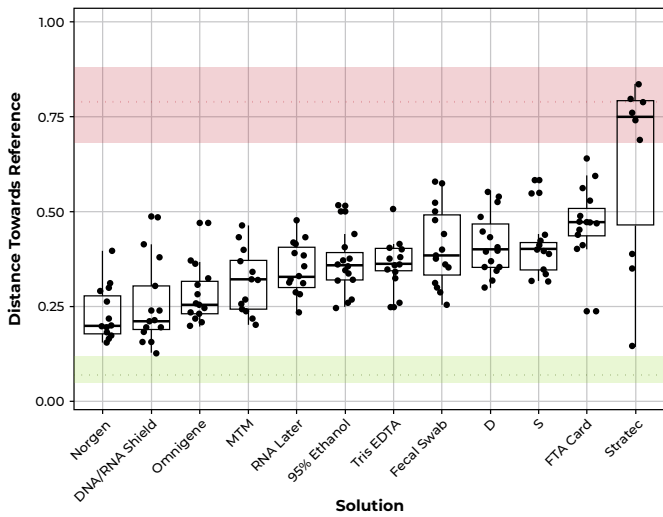


- ✓ No need to immediately process samples
- ✓ Nucleic acid preservation at room temperature over 2 years for DNA and up to 7 days for RNA
- ✓ Ship fecal samples at room temperature safely
- ✓ Compatible with most DNA/RNA isolation methods
- ✓ Optimized isolation procedure using Norgen's Microbiome DNA Isolation Kit



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Advantages You Will Bring to Your Lab



NORGEN'S BEST-IN-CLASS PRESERVATION

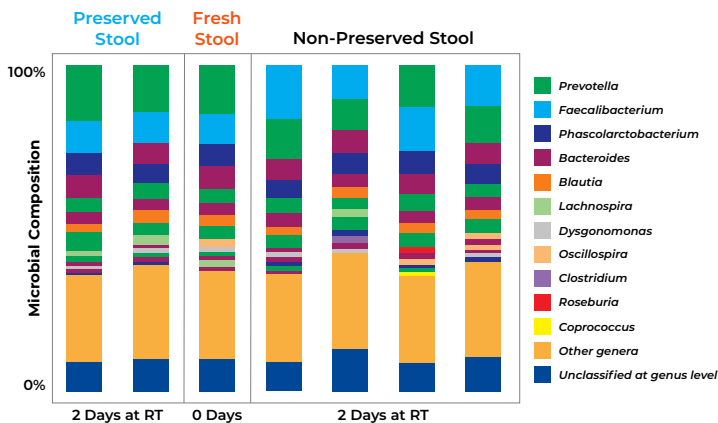
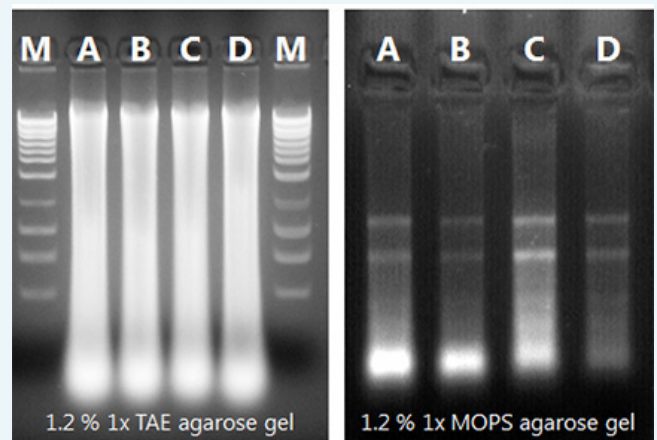
Figure 1. Norgen's Best-In-Class Preservation. Summary of community shifts in response to stabilizing solutions over a 14-day storage period. Bray-Curtis distance towards the reference for each patient grouped by stabilizing solution. Median and 5th-to-95th percentile ranges are shown for both interaliquot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

27 Months Preserved Stool DNA at RT

7 Days Preserved Stool RNA at RT

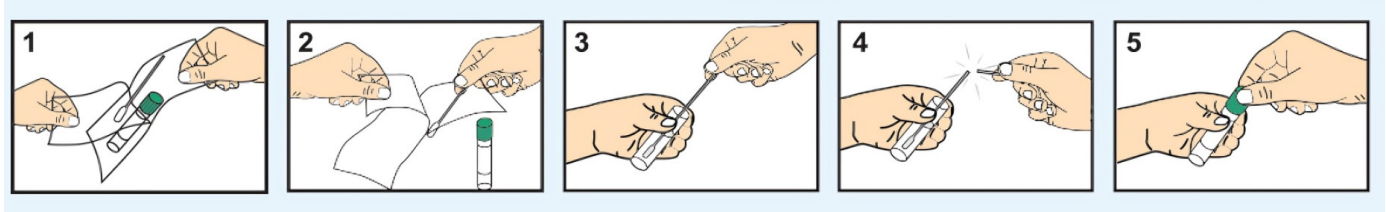


HIERARCHICAL CLUSTERING OF STOOL SAMPLES AT PHYLUM LEVEL UNDER DIFFERENT STORAGE CONDITIONS

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. 45630, 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.

Collection Procedure & Kit Components

COLLECTION PROCEDURE



KIT SPECIFICATIONS

Description	Specifications
Stability of Stool Nucleic Acids at Room Temperature	2 years for DNA Up to 7 days for RNA*

* The RNA stability will vary depending on the samples

KIT COMPONENTS

Description	Specifications
Individually Wrapped Swabs	50
Fecal Swab Collection and Preservation Tube	50
Product Insert	1

SELECT PUBLICATIONS

Publication Title	Authors	Journal	Year
Changes in the Human Gut Microbiome during Dietary Supplementation with Modified Rice Bran Arabinoxylan Compound	Schupfer E, Ooi SL, Jeffries TC, Wang S, Micalos PS, Pak SC.	Molecules	2023
Identifying Microbiome Dynamics in Pediatric IBD: More than a Family Matter.	Dovrolis, N.; Moschoviti, A.; Fessatou, S.; Karamanolis, G.; Kolios, G.; Gazouli, M.	Nature Communications	2023
Dynamic Changes in Fecal Microbial Communities of Neonatal Dairy Calves by Aging and Diarrhea.	Kim ET, Lee SJ, Kim TY, Lee HG, Atikur RM, Gu BH, Kim DH, Park BY, Son JK, Kim MH.	Animals (Basel). 2021 Apr 13;11(4):1113. doi: 10.3390/ani11041113. PMID: 33924525; PMCID: PMC8070554.	2021

Ordering Information

Description	Units	Cat. #
Fecal Swab Collection And Preservation System	50 Units	45670-B

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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 norgenbiotek.com	



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