Stool DNA Isolation Kits

CAT. 27600, Dx27600

THESE KITS PROVIDE A CONVENIENT AND RAPID METHOD TO ISOLATE TOTAL DNA FROM FRESH, FROZEN AND PRESERVED STOOL SAMPLES

The universal protocol conveniently allows for the isolation of total genomic DNA from all the various microorganisms and host cells found in the stool sample simultaneously. Purifies the DNA with high yields and molecular weights of up to 50 kb plus. The purified DNA can be used with a number of downstream applications.

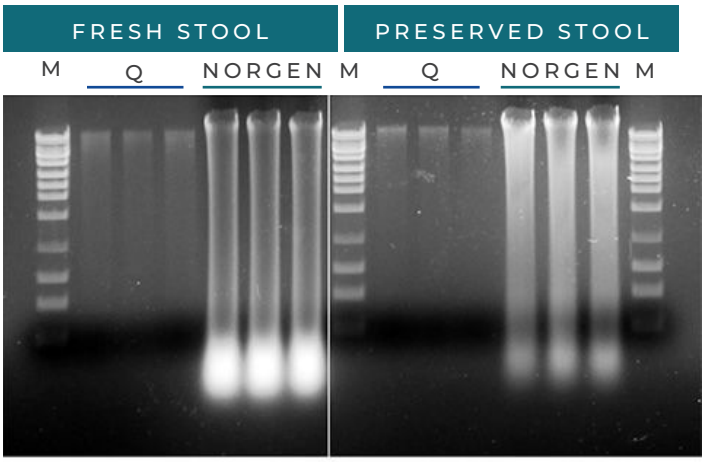
- Simultaneous isolation of both host DNA and microbial DNA (universal protocol)
- Fully compatible with Norgen's Stool Nucleic Acid Collection and Preservation Tubes (Cat. 45660)
- High quality DNA for sensitive downstream applications including PCR, qPCR, Sequencing and microarray
- 96-Well and Magnetic Bead System formats also available Isolate nucleic acids for any application including 16S NGS

NORGEN BIOTEK

ISO 9001:2015 CERTIFIED QUALITY · ISO 13485:2016 CERTIFIED QUALITY · GMP COMPLIANT

norgenbiotek.com

Advantages You Will Bring to Your Lab

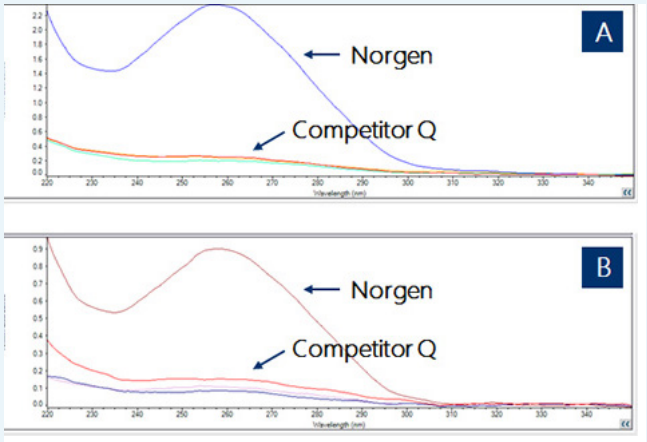


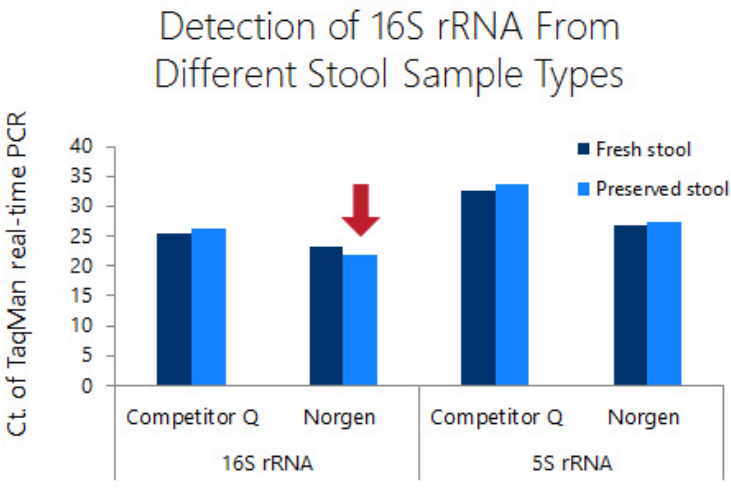
HIGHER YIELDS OF DNA THAN THE LEADING COMPETITOR

Figure 1. Higher Yields of DNA than Competitor. Stool DNA was isolated from 200 mg of fresh or preserved stool samples using Norgen's Stool DNA Isolation Kit and Competitor Kit. For evaluation, 10 µL 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).

HIGH DNA CONCENTRATION AND QUALITY

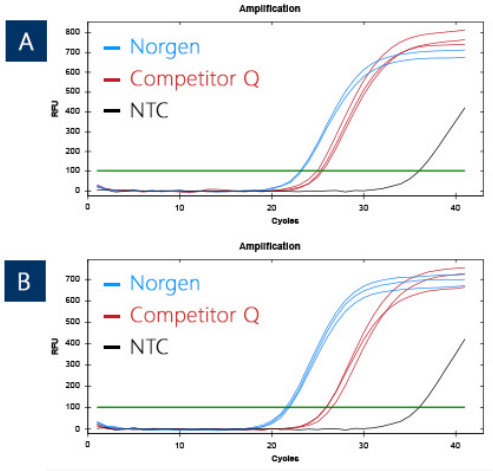
Figure 2. Stool DNA quality and concentration measured by NanoDrop. High DNA concentration and quality was obtained using Norgen's Stool DNA Isolation Kit from fresh or preserved stool samples. Figure 2A: Fresh stool samples, Figure 2B: Preserved stool using Norgen's Stool Nucleic Acid Collection and Preservation Tubes (Cat. 45660).





BETTER 16S rRNA DETECTION FROM DNA ISOLATED USING NORGEN'S STOOL DNA PRESERVATIVE AND STOOL DNA ISOLATION KIT

Figure 3. 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 µL PCR reaction volume. Stool was preserved using Norgen's Stool DNA Preservative and isolated using Norgen's Stool DNA Isolation Kit showed better 16S rRNA gene detection as compared to fresh stool isolated with Competitor.



HIGHER YIELDS OF DNA THAN THE LEADING COMPETITOR

Figure 4. Detection of 16S rRNA from stool DNA isolated from 200 mg of fresh stool samples using Norgen's Stool DNA Isolation Kit and a Competitor kit. DNA quality was confirmed by Real-time PCR using 2 µL of stool DNA (total PCR reaction volume was 20 µL) to detect 16S rRNA from different microorganisms in the stool samples. The earlier Ct value with Norgen's DNA samples (blue lines) compared to Competitor samples (red lines) indicated a higher quality of stool DNA for downstream applications. Figure 3A: Fresh stool sample, Figure 3B: Preserved stool using Norgen's Stool Nucleic Acid Collection and Preservation Tubes (Cat. 45660).

Kit Specifications

Description	Specifications
Maximum Stool Input	200 mg (fresh/frozen stool) or 400 µL (preserved stool)
Type of Stool Processed	Frozen, fresh or preserved stool
Format	Spin Column
Maximum Column Binding Capacity	50 µg
Maximum Column Loading Volume	650 µL
Elution Volume	50 µL
Time to Complete 10 Purifications	30 minutes
Applications	PCR, qPCR, Southern Blot Analysis, Sequencing, Microarray Analysis.

Select Publications

Islam, Jahidul, et al. **"Freeze-Dried Fecal Microorganisms as an Effective Biomaterial for the Treatment of Calves Suffering from Diarrhea."** Scientific Reports, vol. 14, no. 1, Nov. 2024, p. 28078. www.nature.com, https://doi.org/10.1038/s41598-024-79267-5.

Ito, Kaori, et al. **"Breast Milk Stabilizes Bacterial Communities in the Large Intestine Even after Weaning."** Biochemical and Biophysical Research Communications, vol. 756, Apr. 2025, p. 151585. ScienceDirect, https://doi.org/10.1016/j.bbrc.2025.151585.

Nieto-Clavijo, Carlos, et al. **"Enhanced Blastocystis Subtyping from Stool Samples Using Semi-Nested Barcode PCR: Validation with an NGS-Based Approach."** BioTechniques, vol. 76, no. 12, Dec. 2024, pp. 581–91. DOI.org (Crossref), https://doi.org/10.1080/07366205.2024.2442835.

Pinho, Catarina J., et al. **"Table for Two: Diet Composition Differences of Allopatric and Sympatric Populations of Island Geckos."** Global Ecology and Conservation, vol. 57, Jan. 2025, p. e03412. ScienceDirect, https://doi.org/10.1016/j.gecco.2025.e03412.

Ordering Information

Description	Preps	Cat. #
Stool DNA Isolation Kit (Spin Coloumn)	50 Preps	27600
Stool DNA Isolation Kit Dx (Spin Coloumn) CE	50 tubes	Dx27600

Related Products

Description	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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