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Invitrogen™

PureLink™ Microbiome DNA Purification Kit

Catalog number: A29790

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Catalog Number

A29790

Unit Size

1 kit

Price (EUR)

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The kit uses proven PureLink spin column technology for robust yields of purified DNA ready for downstream PCR, sequencing, or other applications. The highly efficient triple lysis approach, fast removal of inhibitors, and versatility make this the ultimate kit for microbiome research projects as well as programs aimed at rapid detection of pathogenic bacteria in various samples.

Features of the PureLink Microbiome DNA Purification Kit include:

- Efficient lysis of all microorganisms (including durable species with thicker and more complex cell walls) by a combination of heat, chemical, and mechanical disruption with specialized beads
- Elimination of inhibitory compounds by precipitation using a novel cleanup buffer
- Streamlined protocols for numerous biological samples
- Recovery of high-purity DNA compatible with common downstream applications such as qPCR and next-generation sequencing

One kit to isolate microbial and host DNA from a diverse set of sample types

The PureLink Microbiome DNA Purification Kit minimizes the need to order individual kits for specific sample types because it has been optimized for use with a wide range of biological samples.

The kit enables microbial—and, where applicable, host—DNA purification from the following samples:

- Stool
- Urine
- Saliva
- Swabs (vaginal, buccal, skin, rectal, environmental)
- Transport media
- Growth media
- Soil

Analyzing the human microbiome

The human body is populated by 100 trillion bacteria, archaea, fungi, protists, and viruses, all of which play a fundamental role in our well-being. The term 'microbiome' refers to the various different microbes in those communities. Presently, their genes are the most straightforward method of identifying these organisms. Deviations from healthy microbial compositions have been linked to many human diseases, including inflammatory bowel disease, obesity, cancer, asthma, diabetes, and allergies.

Purification of the aggregate microbial DNA in a biological sample is a key step in understanding how the microbiome influences human health. It is of utmost importance that the DNA recovered accurately reflects the representation of the diverse microbes in the sample community. The mechanical disruption and triple lysis approach used in the PureLink Microbiome DNA Kit help ensure that microbial DNA from even the toughest samples, such as gram-positive bacteria found in stool, can be recovered—allowing you to identify the full spectrum of microbes present.

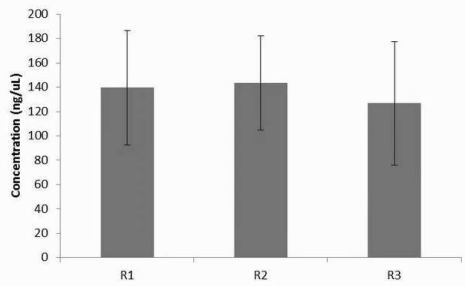
Column Type	Spin Column
Isolation Technology	Silica Spin Column
Sample Type	Microbial Culture, Saliva, Soil, Stool, Host DNA from Stool, Swabs (Buccal, Vaginal, Skin, Rectal, or Environmental), Cells, Food and Environmental
Scale	Mini
Elution Volume	50 to 200 µL
Final Product Type	Microbial and host DNA
For Use With (Application)	PCR, Southern blotting, sequencing, nucleic acid labeling, hybridization
High-throughput Compatibility	Not High-throughput Compatible (Manual)
Quantity	50 Preps
Shipping Condition	Room Temperature
Starting Material Volume	Buccal/Vaginal/Skin/Rectal/Environmental Swab: 1 swab Microbial Culture: ≤5 mL Saliva: ≤2 mL Soil: ≤2 g Stool: ≤2 g Urine: ≤10 mL
Test Time	Up to 55 min. (Including sample homogenization)
Yield	≤25 µg

Contents & Storage

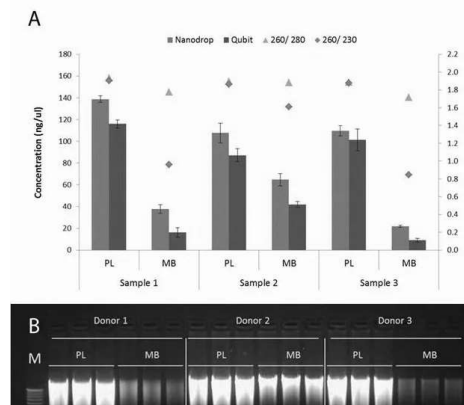
- 40 mL S1 Lysis Buffer; room temperature
- 5 mL S2 Lysis Enhancer; room temperature
- 12.5 mL S3 Cleanup Buffer; room temperature
- 45 mL S4 Binding Buffer; room temperature
- 13 mL S5 Wash Buffer (concentrated); room temperature

- 50 Bead Tubes; room temperature

Figures



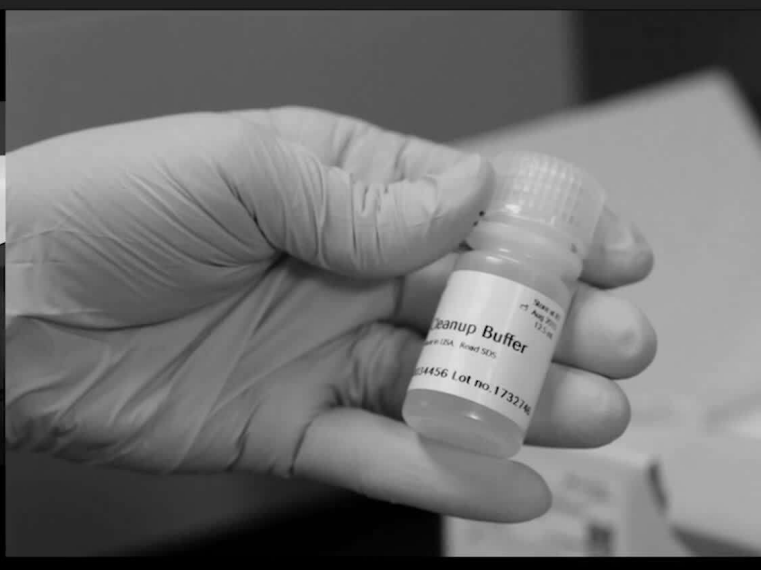
Purification of microbial and host DNA from rat feces



Purification of microbial and host DNA from human stool

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[Flyer: PCR enzymes and sample prep kits for microbiome research](#)

Application Notes

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[Application Note: Rapid 2-hour workflow for detection of select bacteria in stool samples](#)



[Application Note: The human microbiome in 2015—PureLink Microbiome DNA Purification Kit](#)

Product Information

Manuals

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[User Guide: PureLink Microbiome DNA Purification Kit \(Rectal and Environmental Swab Samples\)](#)



Samples)



User Guide: PureLink Microbiome DNA Purification Kit (Soil Samples)



User Guide: PureLink Microbiome DNA Purification Kit (Transport Media and Microbial Culture Samples)



User Guide: PureLink Microbiome DNA Purification Kit (Buccal, Vaginal, and Skin Swab Samples)



User Guide: PureLink Microbiome DNA Purification Kit (Stool Samples)

Frequently asked questions (FAQs)

Does the PureLink Microbiome DNA Purification Kit work for fungi in stool samples? Answer +

Can the PureLink Microbiome DNA Purification Kit be used on mouse stool? Answer +

Does the elution buffer in the PureLink Microbiome DNA Purification Kit (Cat. No. A29790) contain EDTA? Answer +

What is the best way to preserve the microbiome samples before DNA isolation when using the PureLink Microbiome DNA Purification Kit? Answer +

Which instrument is better for quantitation of purified DNA isolated using the PureLink Microbiome DNA Purification Kit? Answer +


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Citations & References

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Evaluation of a Highly Efficient DNA Extraction Method for *Bacillus anthracis* Endospores. 

Authors: Knüpfer M, Braun P, Baumann K, Rehn A, Antwerpen M, Grass G, Wölfel AR

Journal: Microorganisms

PubMed ID: 32443768

A variety of methods have been established in order to optimize the accessibility of DNA originating from *Bacillus anthracis* cells and endospores to facilitate highly sensitive molecular diagnostics. However, most endospore lysis techniques have not been evaluated in respect to their quantitative proficiencies. Here, we started by systematically assessing the efficiencies of 20 DNA extraction kits for vegetative *B. anthracis* cells. Of these, the Epicentre MasterPure kit gave the best DNA yields and quality suitable for further genomic analysis. Yet, none of the kits tested were able to extract reasonable quantities of DNA from cores of the endospores. Thus, we developed a mechanical endospore lysis protocol, facilitating the extraction of high-quality DNA. Transmission electron microscopy or the labelling of spores with the indicator dye propidium monoazide was utilized t...

1 total citations