



Microbial DNA and RNA Isolation

Designed for Tough Samples – Isolate nucleic acids from yeast, fungi, spores, Gram-negative and Gram-positive bacteria

Optimized Bead Beating Technology – Mechanical action effectively lyses microorganisms, increasing DNA and RNA yields

High Quality DNA & RNA – Inhibitor-free nucleic acids are ready to use in PCR, qPCR and sequencing

Complete Kits – All tubes and reagents required are included and ready to use

ULTRACLEAN® MICROBIAL DNA ISOLATION KIT

Isolate DNA from microbial cultures in 20 minutes. Yields high quality DNA that is ready for PCR.

ULTRACLEAN®-HTP 96 WELL MICROBIAL DNA ISOLATION KIT

High-throughput DNA isolation from up to 96 microbial samples in 1.5 hours

POWERLYZER™ ULTRACLEAN® MICROBIAL DNA ISOLATION KIT

Optimized for use with bead based homogenizers such as the PowerLyzer™ 24 for rapid isolation of DNA from microbial cultures

ULTRACLEAN® MICROBIAL RNA ISOLATION KIT

Isolate total RNA from microbial cultures in 35 minutes. Yields up to 60 µg high quality RNA for use in RT-PCR

NEW

POWERMAG® MICROBIAL DNA ISOLATION KIT

Magnetic Bead Technology (SwiftMag™) for rapid, high-throughput isolation of inhibitor-free DNA. Optimized for use with the Thermo Scientific KingFisher® Flex and KingFisher® Duo and the Eppendorf epMotion®.

Catalog No.	Description	Quantity
12224-50	UltraClean™ Microbial DNA Isolation Kit	50 Preps
12224-100	UltraClean™ Microbial DNA Isolation Kit	100 Preps
12255-50	PowerLyzer™ UltraClean® Microbial DNA Isolation Kit	50 Preps
15800-50	UltraClean™ Microbial RNA Isolation Kit	50 Preps
15800-250	UltraClean™ Microbial RNA Isolation Kit	250 Preps
10196-4	UltraClean-htp™ 96 Well Microbial DNA Kit	4x96 Preps
10196-12	UltraClean-htp™ 96 Well Microbial DNA Kit	12x96 Preps
27200-4	PowerMag™ Microbial DNA Isolation Kit	4x96 Preps

中国区总代理

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Microbial DNA and RNA Isolation

The UltraClean™ Microbial DNA and RNA Isolation Kits are designed to isolate high quality genomic DNA or total RNA from microorganisms. A variety of microorganisms including gram negative and gram positive bacteria, bacterial spores, yeast and fungi have been tested successfully with these kits. Microbial cells are lysed using MO BIO's optimized bead beating technology, and nucleic acids are purified using a silica spin filter or spin plate.

UltraClean™ Microbial DNA Isolation Kit

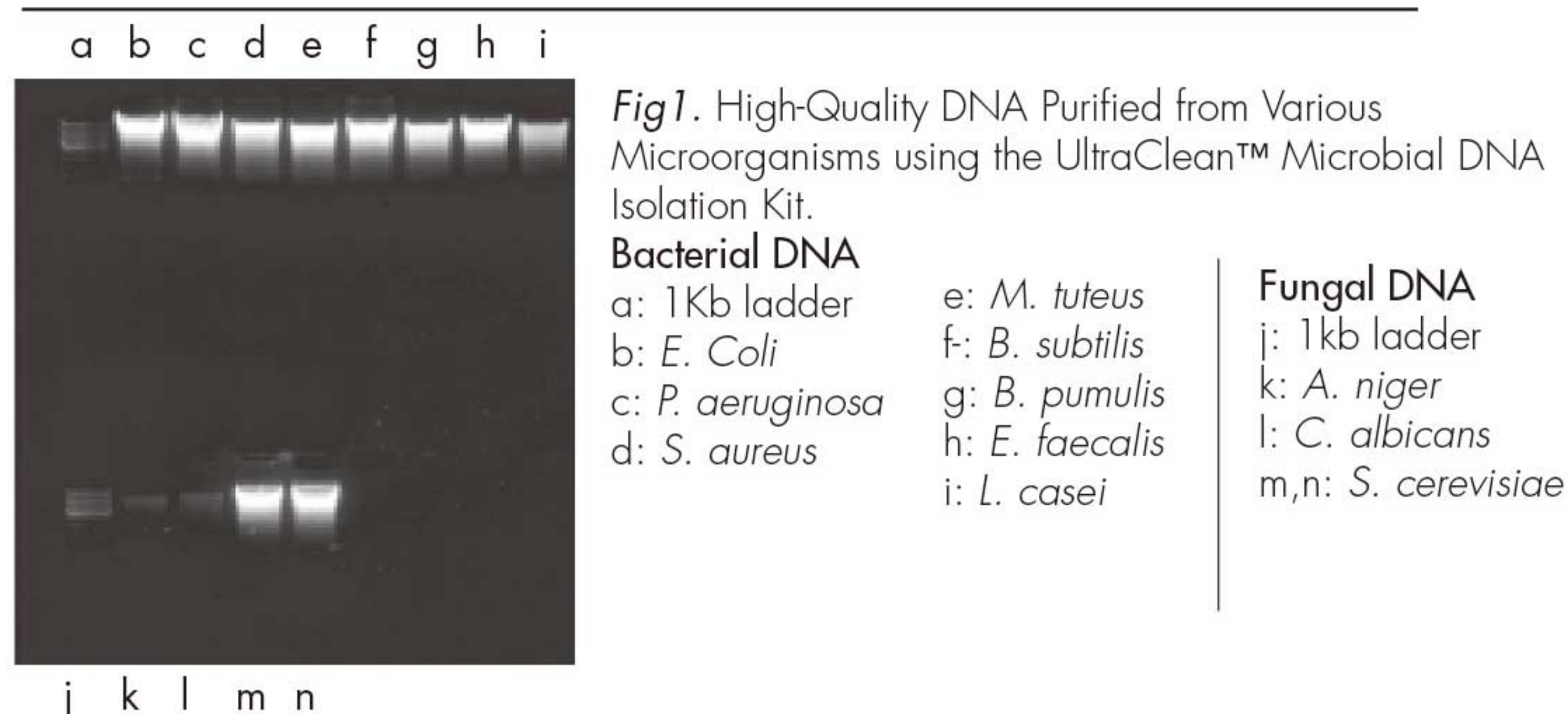


Fig1. High-Quality DNA Purified from Various Microorganisms using the UltraClean™ Microbial DNA Isolation Kit.

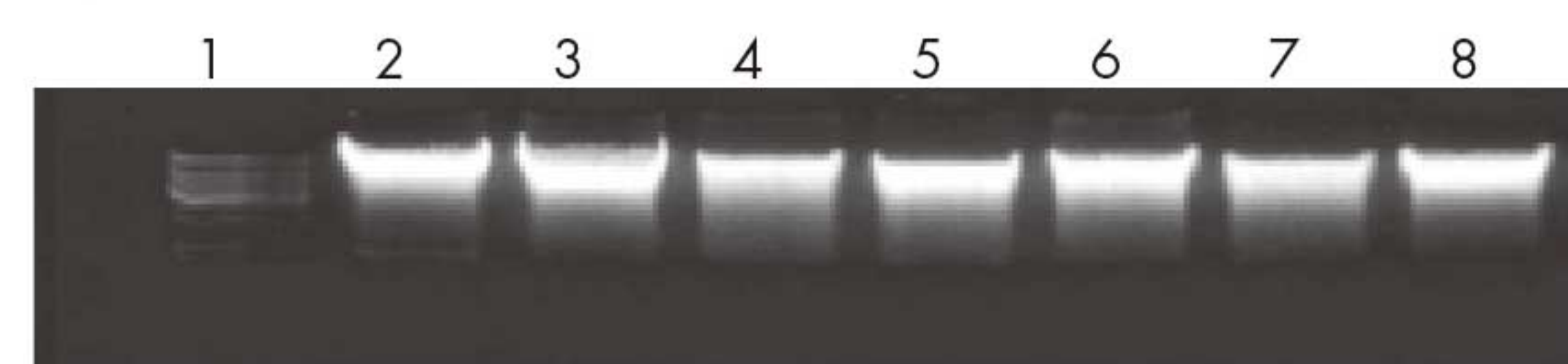


Fig2. Consistent DNA Yields with UltraClean-htp™ 96 Well Microbial DNA Kit. DNA was purified from various microorganisms and displayed on 1.2% TAE agarose gel.

- 1: Marker.
- 2: *E. coli*
- 3: *E. faecalis*
- 4: *B. Subtilis*
- 5: *P. fluorescens*
- 6: *C. albicans*
- 7: *C. albicans*
- 8: *S. cerevisiae*

UltraClean™ Microbial RNA Isolation Kit

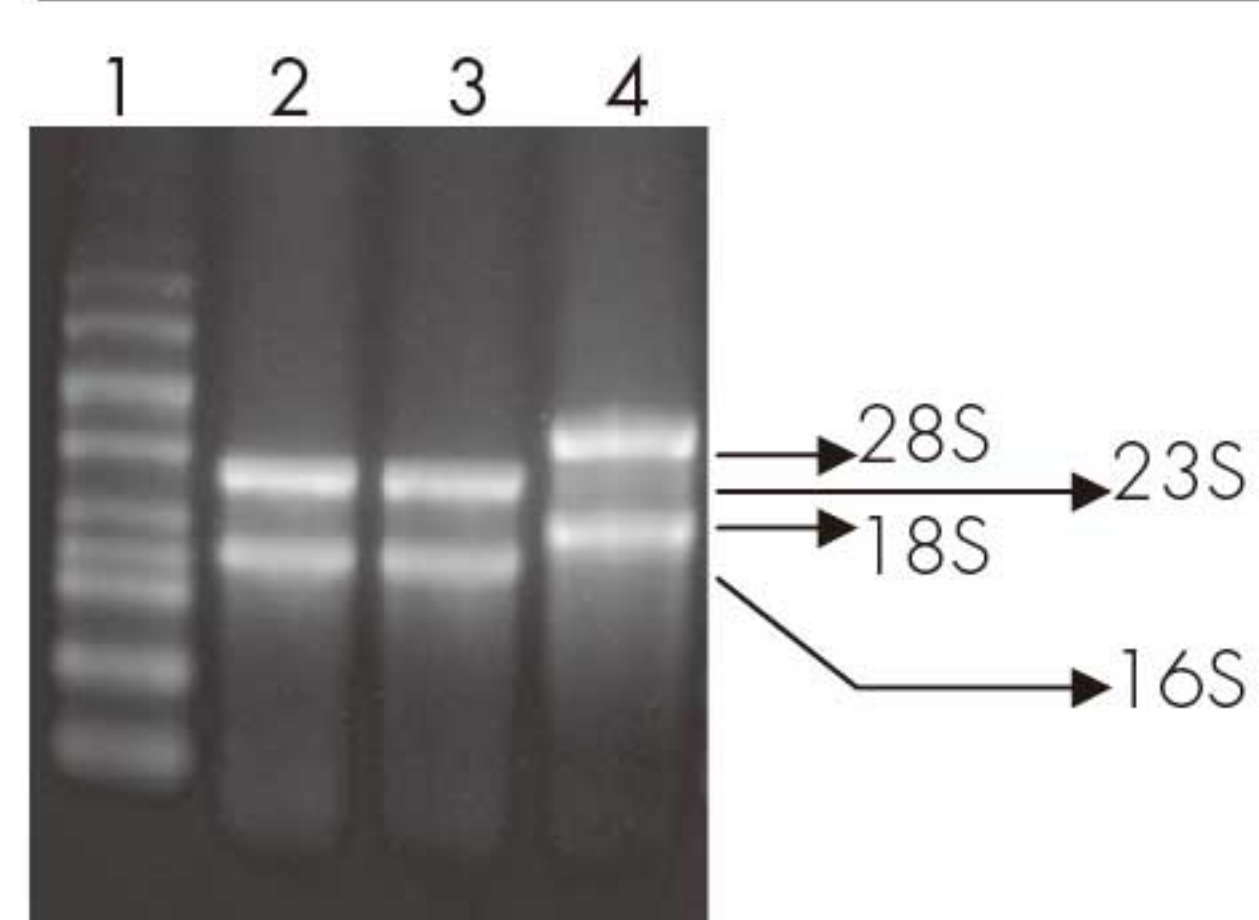


Fig3. Total RNA was purified from various microorganisms and displayed on a 1% formaldehyde agarose gel in MOPS buffer.

- 1: RNA ladder
- 2: *E. faecalis*
- 3: *B. subtilis*
- 4: *C. albicans*

PowerMag™ Microbial DNA Isolation Kit

The PowerMag™ Microbial DNA Isolation Kit is designed for automated isolation of high quality genomic DNA from pure microbial cultures, food cultures and swabs. Our unique SwiftMag™ Technology has been optimized for use with the Thermo Scientific KingFisher® Flex, KingFisher® Duo and the Eppendorf epMotion® 5075 TMX platforms, for rapid, high-throughput isolation of inhibitor-free DNA.

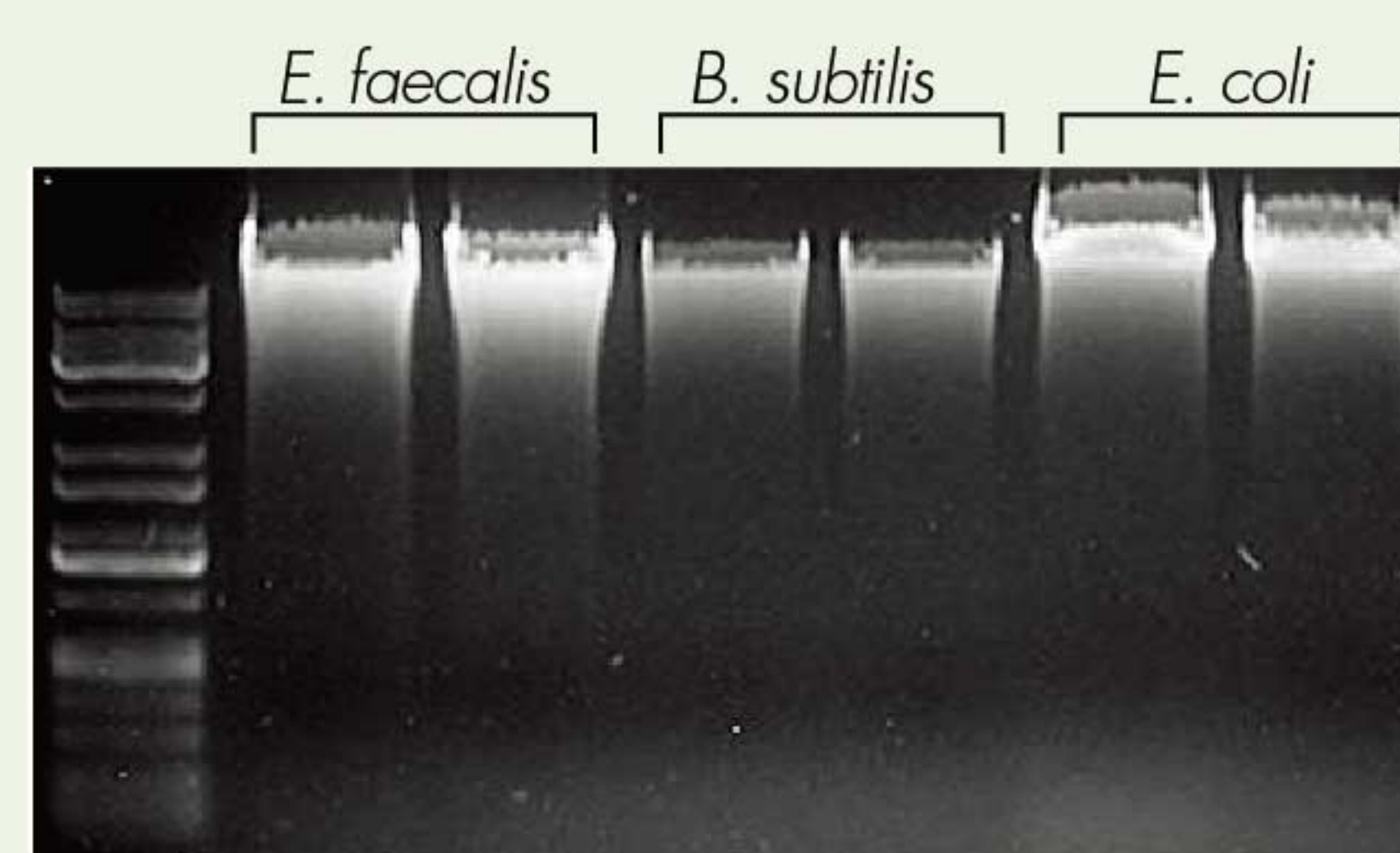


Figure 4. High quality DNA isolated from 1.8 ml of *E. faecalis*, *B. subtilis* and *E. coli* cultures using the PowerMag™ Microbial DNA Isolation Kit on the KingFisher® Duo. High quality, high molecular weight DNA was observed in replicate samples examined on a 1% agarose gel. No differences in yield or quality were observed between the replicate samples.

	UltraClean™ Microbial DNA Isolation Kits	UltraClean™ Microbial RNA Isolation Kit	PowerMag™ Microbial DNA Isolation Kit
Format	Silica Spin Filter Tubes	Silica Spin Filter Plates	Magnetic Particle Technology
Method	Bead Beating	Bead Beating	Bead Beating
Binding Capacity	Up to 20 µg per well	Up to 20 µg per well	Up to 20 µg per filter
Through-put	1-24 samples	96 samples	1-24 samples
Time	20 minutes	1.5 hours	35 minutes
Equipment Required	Microcentrifuge, Vortex, Vortex Adapter	Plate centrifuge, 96 Well Plate Shaker	Microcentrifuge, Vortex, Vortex Adapter
			96 Well Plate Shaker, Centrifuge, Automated processing system.

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