

DNA Isolation from Microbial Cell Pellets

PowerMicrobial™ Midi DNA Isolation Kit

PowerMicrobial™ Maxi DNA Isolation Kit

NEW For large scale isolation of DNA from microbial cultures



Features and Benefits

- Zero post-extraction cell survival provides safety in the lab and is ideal for pathogens
- Maxi kit isolates up to 1 mg of DNA
- 100% cell lysis efficiency permits DNA isolation from challenging microorganisms: spores, Gram-positive and Gram-negative bacteria, yeast and fungi
- Utilizes phenol:chloroform* in combination with bead beating lysis for maximum performance

DESCRIPTION

The PowerMicrobial™ Midi DNA Isolation Kit and the PowerMicrobial™ Maxi DNA Isolation Kit are the only large scale kits designed to isolate DNA from microorganisms grown in up to 100 ml of culture medium with a density of at least 10^8 cells/ml. Two kit sizes are available for processing up to either 0.1 mg or 1.0 mg of DNA from cultures.

The success of these kits is due to their highly effective lysing method. The unique bead beating method together with phenol:chloroform* results in both maximum yield of DNA and 100% kill of microorganisms. Purified DNA is free of viable microbial cells or spores and can be used safely in the laboratory – even if it originated from pathogenic organisms. (Note: Always verify safety of DNA by post-extraction plate counts.) The kits utilize common laboratory equipment and simply requires a vortex and a vortex adapter for maximum effectiveness.

*User provided

Sample Type	# of Strains Tested	Successful Isolation
<i>Bacillus sp.</i>	5	✓
<i>Geobacillus sp.</i>	1	✓
<i>Listeria sp.</i>	2	✓
<i>Streptococcus sp.</i>	2	✓
<i>Streptomyces sp.</i>	1	✓
<i>Yersinia sp.</i>	2	✓

Specifications	PowerMicrobial™ Midi DNA Isolation Kit	PowerMicrobial™ Maxi DNA Isolation Kit
Column Capacity	Up to 100 µg	Up to 1 mg
Time	Under 2 hours	Under 2 hours
Culture Volume	50 mls	100 mls

RELATED PRODUCTS YOU MAY NEED

UltraClean™ Microbial DNA Isolation Kit
 UltraClean-htp™ 96 Well Microbial DNA Isolation Kit
 UltraClean™ Microbial RNA Isolation Kit
 Vortex Adapter

PowerMicrobial™ Midi DNA Isolation Kit	
Catalog No.	Quantity
12225-25	25 preps
PowerMicrobial™ Maxi DNA Isolation Kit	
Catalog No.	Quantity
12226-25	25 preps

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DNA Isolation from Microbial Cell Pellets



UltraClean™ Microbial DNA Isolation Kit

For routine isolation of high quality DNA from microbial cultures

DESCRIPTION

The UltraClean™ Microbial DNA Isolation Kit is designed to isolate high quality genomic DNA from 1.8 ml of microbial culture. A variety of microorganisms including bacterial spores and fungal types have been tested successfully with this kit. The principal of the kit is to lyse the microorganisms by a combination of heat, detergent, and mechanical force against specialized beads. The cells are lysed using our specially designed Vortex Adapter on a standard vortex. The released DNA is then bound to a silica spin filter, washed and the DNA is recovered in certified DNA-free Tris buffer. The UltraClean™ Microbial DNA Isolation Kit requires our Vortex Adapter for maximum cell lysis efficiency.

Specifications	UltraClean™ Microbial DNA Isolation Kit	UltraClean-htp™ 96 Well Microbial DNA Isolation Kit
Format	Silica Spin Filter Tubes	Silica Spin Filter Plate
Method	Bead Beating	Bead Beating
Binding Capacity	Up to 20 µg per filter	Up to 20 µg per well
Throughput	1 - 24 samples	96 samples
Time	20 minutes	90 minutes



Features and Benefits

- Rapidly purifies DNA from microbial cultures in 20 minutes
- Yields high quality DNA up to 50 kb plus that is ready for PCR, restriction digests and other downstream applications
- Isolates DNA from yeast, fungi, Gram-negative and Gram-positive bacteria
- No hazardous organic solvents or enzymes required



UltraClean-htp™ 96 Well Microbial DNA Isolation Kit

For high throughput isolation of DNA from 96 microbial cultures in 1.5 hours

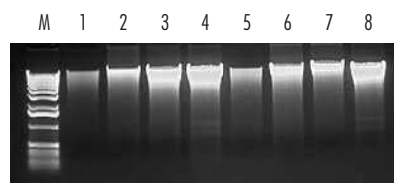
DESCRIPTION

The UltraClean-htp™ 96 Well Microbial DNA Isolation Kit is designed to isolate high quality genomic DNA from microorganisms in a 96 well format. This kit requires a plate centrifuge and a 96 well Plate Shaker. An UltraVac™ Manifold is optional. Both centrifuge and centrifuge/vacuum protocols are provided.

RELATED PRODUCTS YOU MAY NEED

UltraClean™ Microbial RNA Isolation Kit
Vortex Adapter
UltraVac™ Manifold

UltraClean™ Microbial DNA Isolation Kit	
Catalog No.	Quantity
12224-50	50 preps
12224-250	250 preps
UltraClean-htp™ 96 Well Microbial DNA Isolation Kit	
Catalog No.	Quantity
10196-4	4 x 96 preps
10196-12	12 x 96 preps



High Quality DNA Purified from Various Microorganisms Using the UltraClean™ Microbial DNA Isolation Kit

M: 1 kb ladder; Lane 1: *E. coli*; Lane 2: *P. aeruginosa*; Lane 3: *S. aureus*; Lane 4: *M. luteus*; Lane 5: *B. subtilis*; Lane 6: *B. pumilus*; Lane 7: *E. faecalis*; Lane 8: *L. casei*

REFERENCES:

1. Mannisto, M.K., Haggblom, M.M. (2006) *System and Applied Microbiology* (29): 229
2. Koide, R.T. (2005) *Methods in Enzymology, Molecular Evolution: Producing the Biochemical Data, Part B* 395: 58

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