

DNA Clean Up

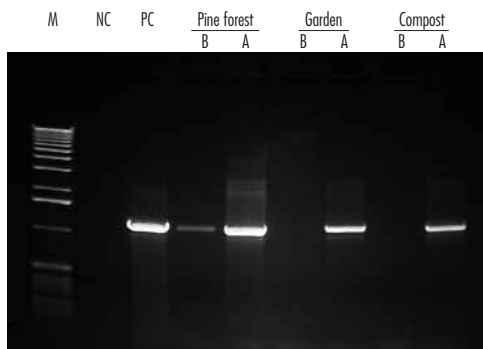
PowerClean™ DNA Clean-Up Kit

NEW Post-extraction clean up of problematic DNA



Features and Benefits

- Efficient secondary purification – cleans up your problematic archived DNA for successful PCR and QPCR amplification
- Removes challenging impurities – purifies DNA containing high amounts of humic substances, polyphenolics, polysaccharides and PCR inhibitors
- Purifies concentrated DNA and removes concentrated contaminants



Successful PCR after DNA Clean Up

PCR was performed on DNA from various soil samples previously isolated. All samples showed successful PCR after using the PowerClean™ DNA Clean-Up Kit. M: marker, NC: negative control, PC: positive control, B lanes are before clean up, A lanes after clean up.

DESCRIPTION

The PowerClean™ DNA Clean-Up Kit provides a quick, easy and reliable secondary clean up method to purify previously isolated genomic DNA from any source for all downstream applications. Problematic isolated DNA from soil may be amber to brown in appearance, which is an indicator of PCR inhibiting substances, like humics and polyphenols. Even colorless samples may contain PCR inhibitors which can be cleaned up with this kit. A high level of purity is achieved which allows for more successful PCR amplification from a variety of problematic samples.

DNA Sample Type	Successful Clean Up
Lagoon sediment	✓
Pine forest base	✓
Compost (18 – 21")	✓
Primary sludge	✓
Activated sludge	✓
Home compost	✓

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RELATED PRODUCTS YOU MAY NEED

PowerSoil™ DNA Isolation Kit
PowerMax™ Soil DNA Isolation Kit
PCR Water (Certified DNA-free)

PowerClean™ DNA Clean-Up Kit	
Catalog No.	Quantity
12877-50	50 preps



UltraClean™ 15 DNA Purification Kit

Effectively purify DNA from agarose or reaction solutions

DESCRIPTION

The UltraClean™ 15 DNA Purification Kit uses economical silica binding particles to extract DNA from agarose gels and enzymatic reactions. These silica particles also provide scale up capabilities for preparative applications when extracting large amounts of DNA. It is ideal for eluting DNA in small volumes. Purified DNA is immediately ready for use in downstream applications including restriction digest, ligation, labeling and PCR.

Applications for use include purification from gels, restriction digests, sequencing reactions (dye removal), radioactive and non-radioactive labeling reactions and all gel stains like ethidium bromide, SYBR® Green and xylene cyanol.

The UltraClean™ 15 DNA Purification Kit provides the most economical method of extracting DNA bands from an agarose gel.

DNA	% Recovery
60 bp	75%
100 bp	90%
500 bp	100%
7.5 kb	95%
23.5 kb	90%
50 kb	80%

Specifications	
Format	Silica Binding Particles
DNA Size Range	60 bp - 50 kb
Binding Capacity	1 µg DNA per 1 µl silica bead slurry
Time	10-15 minutes

REFERENCES:

- Clarke, B.R., L. Cuthbertson, and C. Whitfield (2004). *The Journal of Biological Chemistry*, 279(34): 35709-35718.
- Hara, T., H. Ishida, R. Raziuddin, S. Darkhom, K. Kamiyo, and T. Miki (2004). *Molecular Biology of the Cell*, 15: 1172-1184.

RELATED PRODUCTS YOU MAY NEED

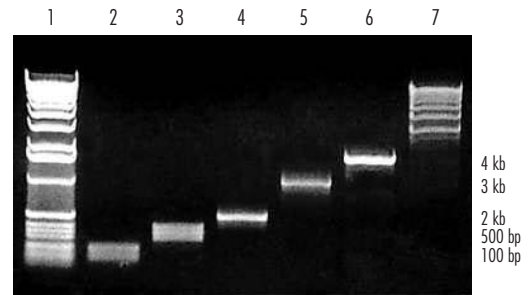
UltraClean™ GelSpin™ DNA Extraction Kit
 UltraClean™ Agarose
 DNA Molecular Weight Markers
 Mini Horizontal Gel System

UltraClean™ 15 DNA Purification Kit	
Catalog No.	Quantity
12100-300	300 preps



Features and Benefits

- Economical method provides significant cost-savings over spin filter kits
- Rapid protocol enables purification of DNA from agarose gels in 15 minutes or from reaction solutions in 10 minutes
- Easy-to-use silica binding particles
- Flexible protocol allows batch isolation of up to 1 mg of DNA from a gel



Successful DNA Fragment Isolation

A wide range of DNA fragments (lanes 2-7) were recovered from a 1 kb DNA ladder (lane 1) with the UltraClean™ 15 DNA Purification Kit.

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