

DNA Isolation from Plant

PowerPlant™ DNA Isolation Kit



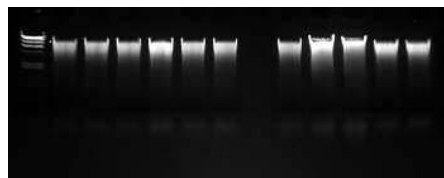
NEW For isolating quality DNA from plants including those high in phenolics and polysaccharides



Features and Benefits

- New method improves PCR inhibitor removal
- Included steel beads enhance sample homogenization
- Utilizes easy hands-off homogenization
- Homogenization method eliminates cross-contamination and the need to clean grinding tools between samples
- Includes tough customized tubes to bead beat and homogenize without tube breakage
- Process more samples with less clean up

M 1 2 3 4 5 6 7 8 9 10 11



Effectively Isolate Quality Genomic DNA from Leaves and Seeds of Many Sample Types

Lane M: DNA Marker. Plant Leaves: Lane 1: potato; Lane 2: tomato; Lane 3: cotton; Lane 4: sunflower; Lane 5: grass; Lane 6: mushroom. Seeds: Lane 7: cotton; Lane 8: sunflower; Lane 9: peanut; Lane 10: soy bean; Lane 11: corn

DESCRIPTION

The PowerPlant™ DNA Isolation Kit* isolates genomic DNA free from PCR impurities from even the toughest plant samples using a powerful homogenization method. Due to the unique hands-off bead beating method, up to 24 samples can be processed simultaneously using a vortex adapter or a bench top homogenizer, such as our Precellys® 24 Homogenizer. This method effectively eliminates both bottlenecks and cross-contamination risk found with hand grinding with a mortar and pestle.

The PowerPlant™ DNA Isolation Kit saves significant time when compared to traditional liquid nitrogen methods and yields are comparable. In addition, its novel PCR inhibitor removal system ensures the DNA is free of polyphenols and polysaccharides allowing for all downstream applications including successful PCR analysis.

*Patent pending

Successful Isolation using PowerPlant™ DNA Isolation Kit			
Arabidopsis	✓	Grape leaves	✓
Pine needle	✓	Rice	✓
Cotton seeds	✓	Corn	✓
Sunflower seeds	✓	Wheat	✓
Strawberry fruit	✓	And more...	✓

Specifications	
Format	Silica Spin Filter Tubes
Method	Bead Beating
Starting Amount	50 mg
Binding Capacity	up to 40 µg per filter
Throughput	1 - 24 samples
Time	60 minutes

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RELATED PRODUCTS YOU MAY NEED

UltraClean™ Plant RNA Isolation Kit
UltraClean™ PCR Clean-Up Kit
Precellys® 24 Homogenizer
Vortex Adapters

PowerPlant™ DNA Isolation Kit	
Catalog No.	Quantity
13200-50	50 preps
13200-100	100 preps

DNA Isolation from Plant



UltraClean™ Plant DNA Isolation Kit

For isolating quality genomic DNA from plant tissues

DESCRIPTION

The UltraClean™ Plant DNA Isolation Kit is designed for fast and easy purification of total cellular DNA from plant cells and tissues. The bead beating technology used in this kit replaces cumbersome DNA isolation procedures such as CTAB, phenol, or chloroform extraction. Using the kit procedure, alcohol precipitation is not necessary and purified DNA is ready for immediate use. The kit is ideal for isolating enough DNA for PCR using just a vortex. For maximum yields we recommend our PowerPlant™ DNA Isolation Kit.

Specifications	UltraClean™ Plant DNA Isolation Kit	UltraClean-htp™ 96 Well Plant DNA Isolation Kit
Format	Silica Spin Filter Tubes	Silica Spin Filter Plate
Method	Bead Beating	Bead Beating
Starting Amount	5-50 mg	5-50 mg
Binding Capacity	up to 20 µg per filter	up to 20 µg per well
Throughput	1 - 24 samples	96 samples
Time	35 minutes	less than 3 hours
Equipment	Vortex	Plate shaker

REFERENCES:

- Lucero, M.E., Barrow, J.R., Osuna, P., Reyes, I. (2005) *Journal of Arid Environments* 63 (3): 538
- Lievens, B., Brouwer, M., Vanachter, A.C.R.C., Levesque, C.A., Cammue, B. P.A., and Thomma, B. P.H.J. (2005) *Environmental Microbiology* 7 (11): 1462

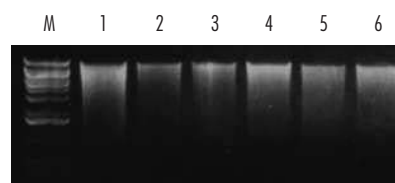
RELATED PRODUCTS YOU MAY NEED

Vortex Adapter
UltraClean-htp™ 96 Well Plant DNA Isolation Kit
96 Well Plate Shaker (for 96 well kit only)



Features and Benefits

- Isolates pure DNA up to 50 kb plus in length
- Removes polysaccharide and phenolic inhibitors of PCR
- Rapidly isolates DNA from plant tissue in 35 minutes
- No hazardous organic solvents provides lab safety



Large, Intact, Genomic DNA from Plants

DNA was successfully isolated from a variety of samples with the UltraClean™ Plant DNA Isolation Kit. Lane M: Marker. Lane 1: cowpea; Lane 2: strawberry; Lane 3: mint; Lane 4: spinach; Lane 5: lime; Lane 6: grass



UltraClean-htp™ 96 Well Plant DNA Isolation Kit

For high throughput isolation of DNA from plant tissues

DESCRIPTION

The UltraClean-htp™ 96 Well Plant DNA Isolation Kit provides high throughput isolation of high quality DNA from 96 samples in less than 3 hours.

UltraClean™ Plant DNA Isolation Kit	
Catalog No.	Quantity
13000-50	50 preps
13000-250	250 preps
UltraClean-htp™ 96 Well Plant DNA Isolation Kit	
Catalog No.	Quantity
13096-4	4 x 96 preps
13096-12	12 x 96 preps

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