

E.Z.N.A.[®] Plant DNA DS Kit

Isolates genomic DNA from leaf & seed tissues with high amounts of polysaccharides & polyphenols

CAT NO: D2411



Robust Lysis

Reliable results from a variety of plant samples



Homogenizer Columns

allowing for faster processing



High-Yielding DNA

Suitable for most downstream applications



Safe

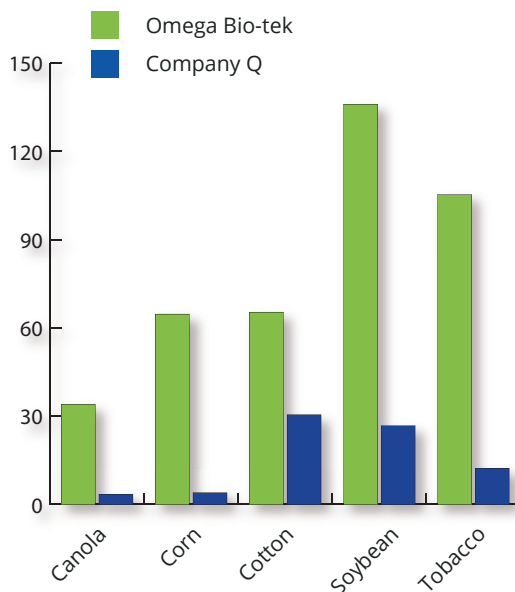
No phenol-chloroform extractions

Cost-Effective

30% less than the competition on average

E.Z.N.A.[®] Plant DNA DS Kit is designed for the efficient recovery of genomic DNA up to 30 kb in size from fresh, frozen or dried plant tissue samples rich in polysaccharides, polyphenols or those having a lower DNA content. Up to 50 mg of wet tissue can be processed in less than 1 hour. The system combines the reversible nucleic acid-binding properties of the HiBind[®] matrix with the speed and versatility of spin column technology to eliminate polysaccharides, phenolic compounds and enzyme inhibitors from plant tissue lysates. Purified DNA is suitable for PCR, restriction enzyme digestion and hybridization applications.

This procedure relies on the well-established properties of the cationic detergent, cetyltrimethyl ammonium bromide (CTAB), in conjunction with the unique binding system to increase yields and provide high quality DNA. The system eliminates the need for chloroform extractions traditionally associated with CTAB-based lysis methods. Samples are homogenized and lysed in a high salt buffer containing CTAB, binding conditions are adjusted and DNA is purified using an HiBind[®] DNA Mini Column. Salts, proteins and other contaminants are removed to yield high quality genomic DNA suitable for downstream applications such as endonuclease digestion, thermal cycle amplification and hybridization applications.



Comparison of DNA Yield from Multiple Crops

Figure 1. 40-50 mg of respective fresh leaf tissue was extracted in triplicate according to the manufacturer's recommended protocols and eluted in 100 μ L. DNA analyzed with fluorescent DNA-based quantification method. Total yield was divided by total tissue amount to show ng or DNA per mg of leaf tissue.

Product Description	Preps	Cat No.
E.Z.N.A. [®] Plant DNA DS Kit	5	D2411-00
	50	D2411-01

For free samples of any of our kits, visit www.omegabiotek.com