

# Mag-Bind® Plant DNA DS 96 Kit



High throughput DNA isolation of plant seed and leaf tissues utilizing magnetic beads

## DNA Yield Comparison from 23 Different Plant Types

Type	Company Q (ng/ mg)	Omega Bio-tek (ng/mg)
Hay	27.2	104.6
Tobacco	12.3	19.4
Peanuts	6.3	52.9
Sunflowers	41.8	89.1
Oranges	4.6	31.2
Switchgrass	21.9	7.9
Peppers	6.9	111.0
Sugarcane	10.5	93.1
Jatropha	7.5	19.0
Oats	18.4	270.0
Wheat	0.5	152.3
Barley	9.6	198.1
Canola	3.4	59.0
Tomatoes	2.6	120.2
Apples	5.7	121.8
Grapes	1.9	212.4
Alfalfa	17.9	85.2
Corn	4.0	29.8
Sugar beets	20.2	34.0
Soybeans	26.8	25.4
Cotton	30.5	63.5
Sorghum	29.4	72.1

Approximately 50 mg leaf sample extracted per sample according to manufacturer's recommended protocol. DNA concentration determined via Fluorescence-based nucleic acid quantification. DNA quantification confirmed via SYBR qPCR (data not showed). Amount of DNA per mg leaf sample shown above.

The Mag-Bind® Plant DNA DS 96 Kit is designed for difficult samples which are hard to lyse or contain high amounts of polysaccharides and polyphenols. The system uses a CTAB based lysis buffer which does not require organic solvents. The proprietary binding system prevents inhibitors from binding to the magnetic beads. The wash buffer system further removes polysaccharides, phenolic compounds, and enzyme inhibitors from plant tissue lysate. An optional rebinding step is included with the kit but most samples do not require the additional treatment.

Using paramagnetic particles provides high-quality DNA that is suitable for direct use in most downstream applications such as qPCR, PCR, and next generation sequencing.

The Mag-Bind® Plant DNA DS Kit is compatible with multiple liquid handlers and magnetic processors such as Thermo Kingfisher Flex, Qiagen Biosprint, Applied Biosystems/Ambion Magmax 96, Beckman Coulter Biomek FX/NX, and Hamilton STAR/STARlet.

### Product Information

VWR Cat. No.	Product No.	Preps
75810-414	M1130-00	1 x 96
75810-416	M1130-01	4 x 96

