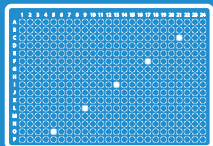


# E-Z 384 Plant DNA HT Kit

High-throughput isolation of genomic DNA from variety of plant tissue samples in 384-well format



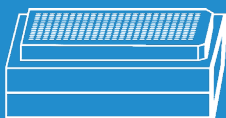
## High-Throughput

768 samples can be processed in ~1.5 hours



## Robust Lysis

Reliable results from a variety of plant samples



## Versatile

Spin and vacuum protocols available



## Safe

No phenol-chloroform extractions

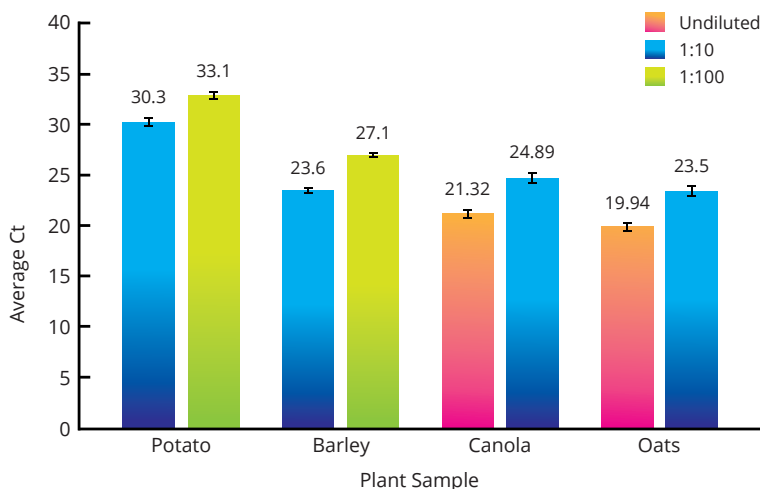
## E-Z 384 Plant DNA HT Kit

enables rapid and high-throughput isolation of genomic DNA from a wide variety of plant tissue samples. Up to 768 fresh, frozen, or dried plant tissue samples rich in polyphenols, polysaccharides or having a lower DNA content can be processed in approximately 1.5 hours, when processing two plates in parallel. The system combines the reversible nucleic acid-binding properties of our HiBind® silica matrix with the speed and versatility of a 384-well format to maximize sample processing throughput. The purification procedure relies on the well-established properties of the cationic detergent, cetyltrimethyl ammonium bromide (CTAB), in conjunction with a unique binding system to eliminate polysaccharides, phenolic compounds, and enzyme inhibitors from plant tissue samples. The system eliminates the need for chloroform extractions traditionally associated with CTAB-based lysis methods. The eluted DNA is inhibitor-free and ready for downstream applications such as genotyping, plant breeding, population level analyses, Next Generation Sequencing, PCR, and more.

Sample	Avg. Yield (ng)
Potato	198.03 ± 15.11
Barley	617.5 ± 30.49
Canola	277.1 ± 37.33
Oats	205.28 ± 42.35

**Table 1.** The average DNA yield from 2 leaf punches of each sample type extracted using the E-Z 384 Plant DNA HT Kit and eluted in 65 µL volume. The DNA yield was determined using Promega's QuantiFluor® dsDNA system.

## Average Ct Values Comparison from Different Plant Types



**Figure 1.** Average Ct values obtained amplifying the purified DNA from various plant samples using the E-Z 384 Plant DNA HT Kit. The  $\Delta$ Ct values were ~3.3, indicating high-quality DNA that is free of inhibitors.

Product Description	Preps	Cat No.
E-Z 384 Plant DNA HT Kit	1 x 384	D1341-00
	4 x 384	D1341-01