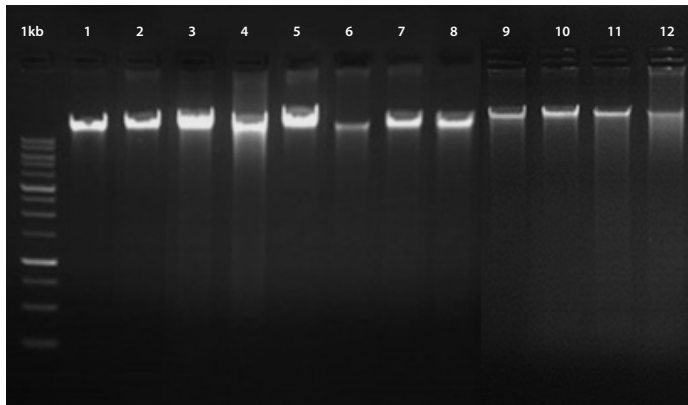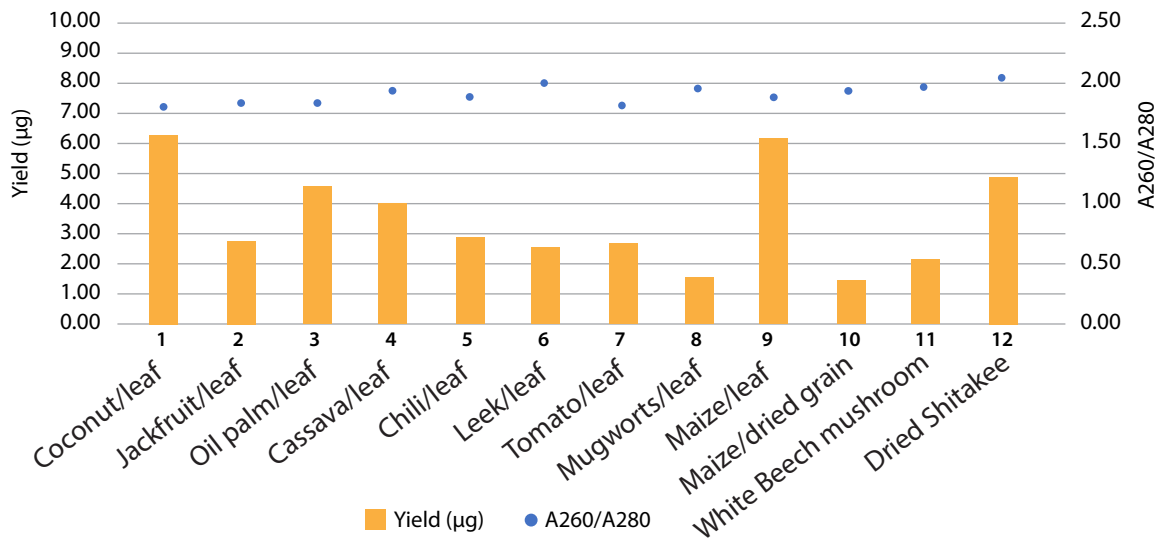# 1st BASE
YOUR RESEARCH, OUR BUSINESS

PrimeWay Plant DNA Extraction Kit
(KIT-9030-10/50/250)

PrimeWay Plant DNA Extraction Kit is a rapid and reliable kit to isolate high quality genomic DNA from plant samples. This kit offers 2 types of lysis buffer: PLB1 Buffer (CTAB) and PLB2 Buffer (SDS) to produce optimum processing with high yield and excellent quality of DNA. Furthermore, this kit is supplied with RNase A to remove RNA contamination presence during the isolation steps. It uses a silica-based spin column and is suitable for isolating and purifying plant DNA within 30 minutes/prep with a high recovery rate. Thus making it suitable for PCR, restriction analysis, enzymatic reactions, Southern blotting & more.

Performance Review DNA Yield and Purity

Various type of plant and fungus are harvested and pulverized with liquid nitrogen, followed by PrimeWay Plant DNA extraction protocol using PLB1 lysis buffer. All DNA are successfully extracted with good quality. PCR tests are conducted to check the viability of the extracted DNA for PCR applications.
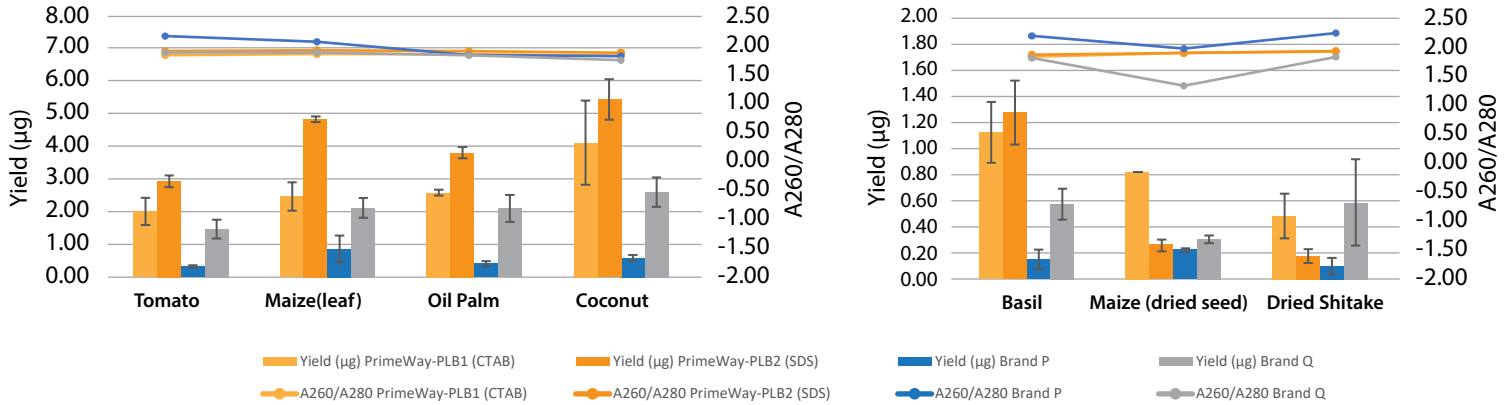

Performance Review
PCR Results from Plant & Fungal DNA

PCR amplification of rbcl & ITS gene from the gDNA extracted from plant and fungus respectively.
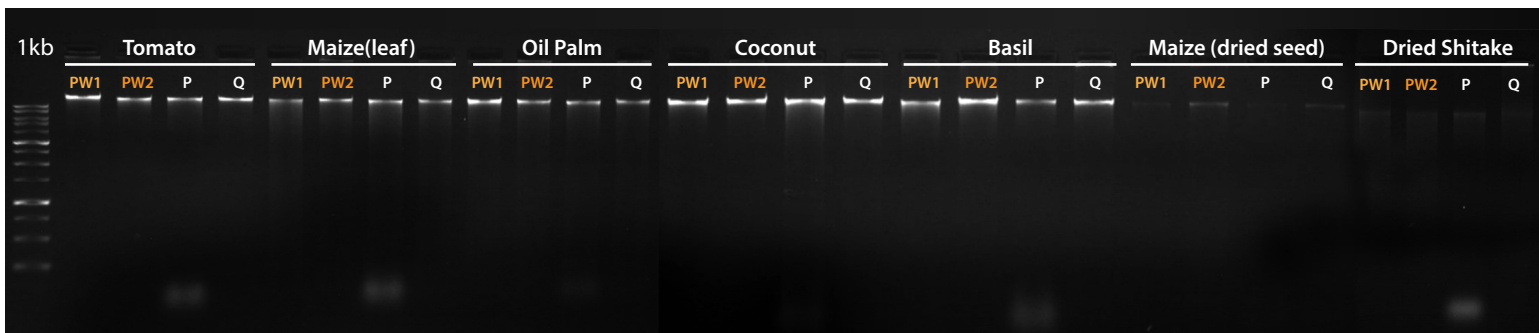
Comparison Data DNA Yield and Purity

Legend:
- Yield (µg) PrimeWay-PLB1 (CTAB)
- Yield (µg) PrimeWay-PLB2 (SDS)
- Yield (µg) Brand P
- Yield (µg) Brand Q
- A260/A280 PrimeWay-PLB1 (CTAB)
- A260/A280 PrimeWay-PLB2 (SDS)
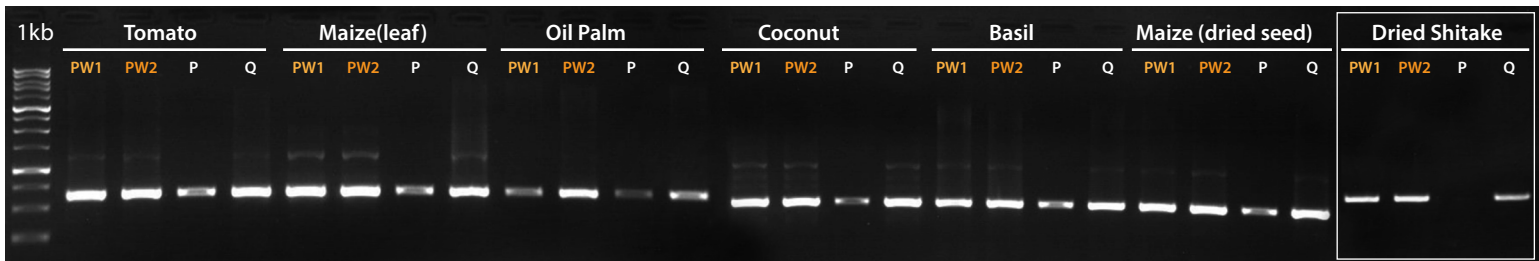- A260/A280 Brand P
- A260/A280 Brand Q

DNA is extracted from 100 mg of various plants, using different brands according to the manufacturing protocol. The DNA is eluted with 100 µL elution buffer.

50 ng of extracted plant DNA from various brands is analyzed using 1% TAE gel stained with Floro⁺Red Nucleic Acid Stain (BIO-5171-600ul). ExactMark 1 kb DNA ladder (1st BASE, BIO-5140-50ug) is used as the size standard.

Note:
PW1: PrimeWay PLB1 Buffer (CTAB)
PW2: PrimeWay PLB2 Buffer (SDS)
P: Brand P
Q: Brand Q

PCR Results from Plant & Fungal DNA
PCR amplification of rbcl & ITS gene using the plant & fungal gDNA extracted from various brands.

Note:
PW1: PrimeWay PLB1 Buffer (CTAB)
PW2: PrimeWay PLB2 Buffer (SDS)
P: Brand P
Q: Brand Q