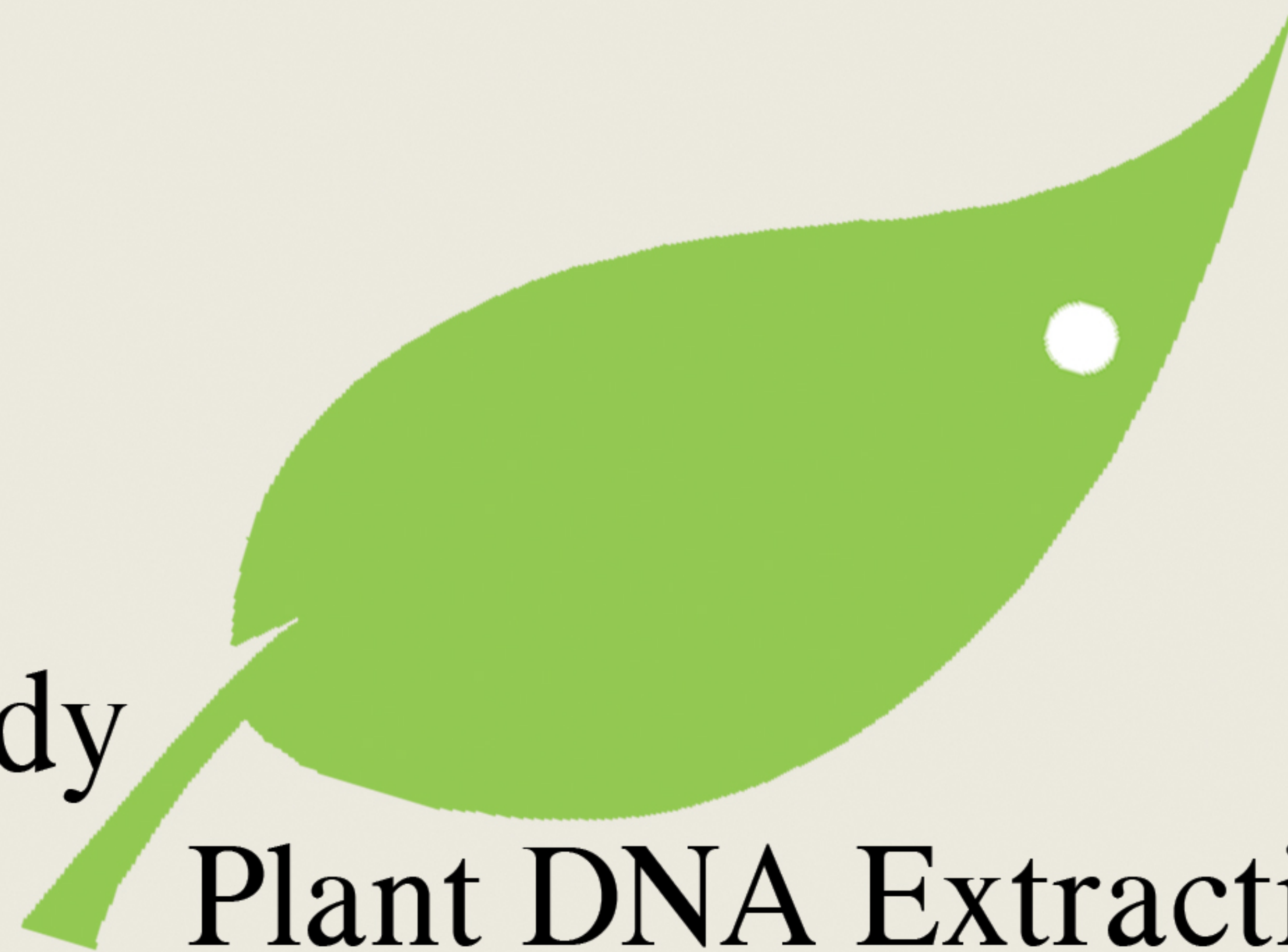


PCR Ready



Plant DNA Extraction Reagent

Hassel free extraction of DNA for PCR

visaraha
Agri Sciences

PCR Ready Plant DNA extraction reagent aids in fast, robust isolation of DNA leading to reliable amplification from minimal leaf material without the need for sample purification

Advantages

Convenience : Use either 5min or overnight protocol

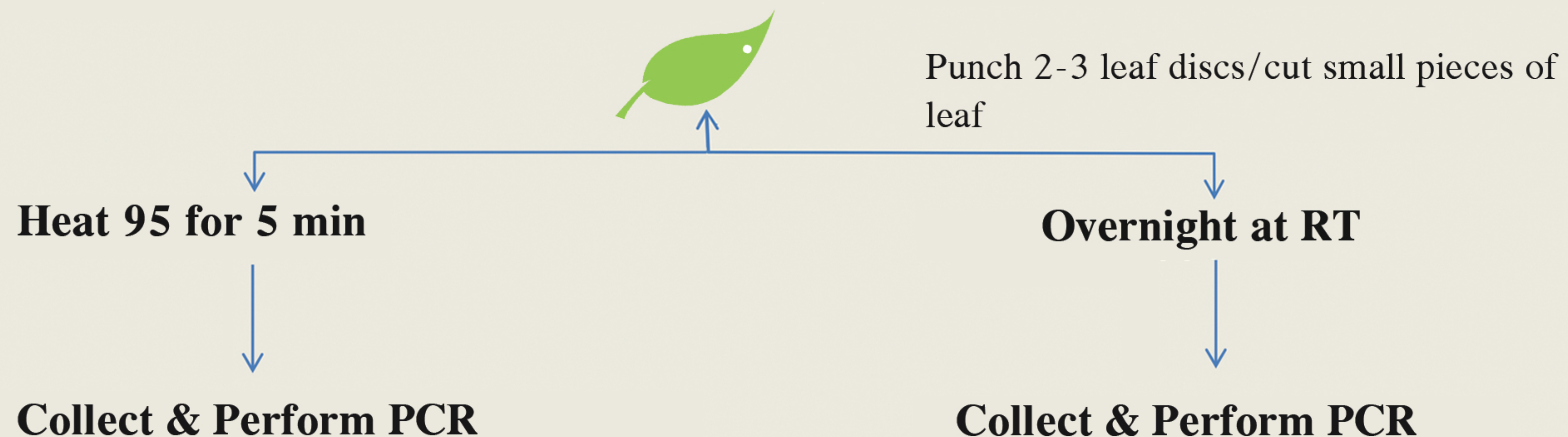
Use your choice of Taq Polymerase and cycling conditions

Collect your samples directly

Robust: Works with wide sample types and targets

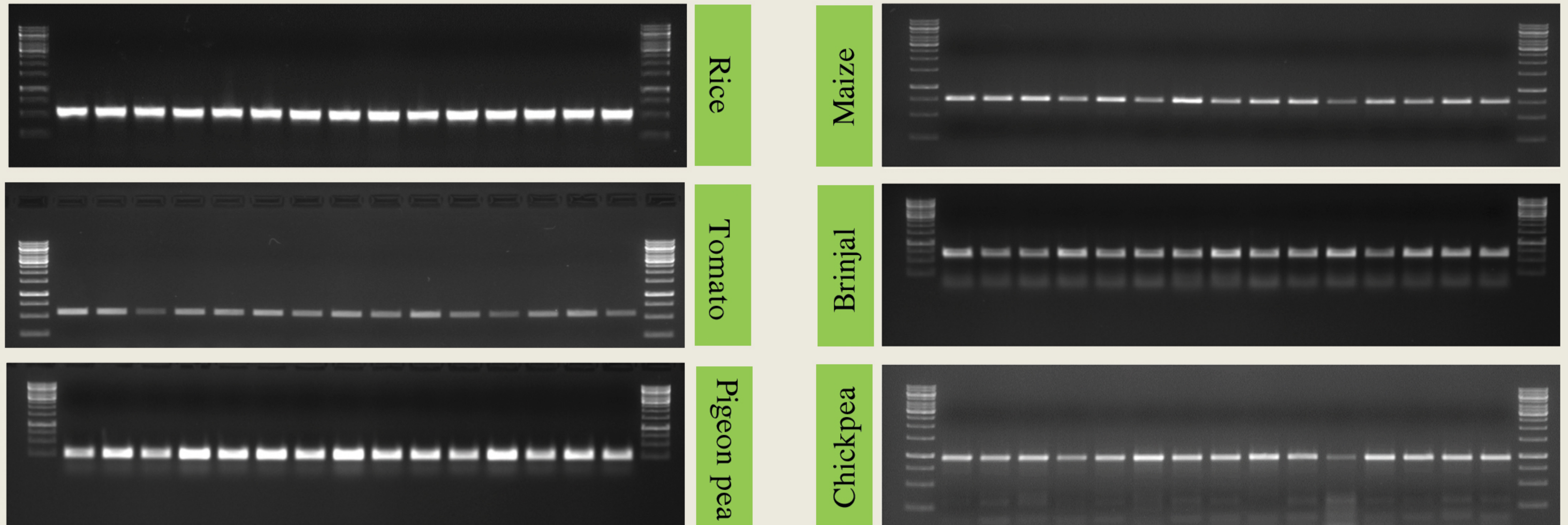
Reliable: Reproducible over large number of samples

Economical: Reasonable pricing and use of standard Taq polymerases decreases the cost



Robust compatibility across species

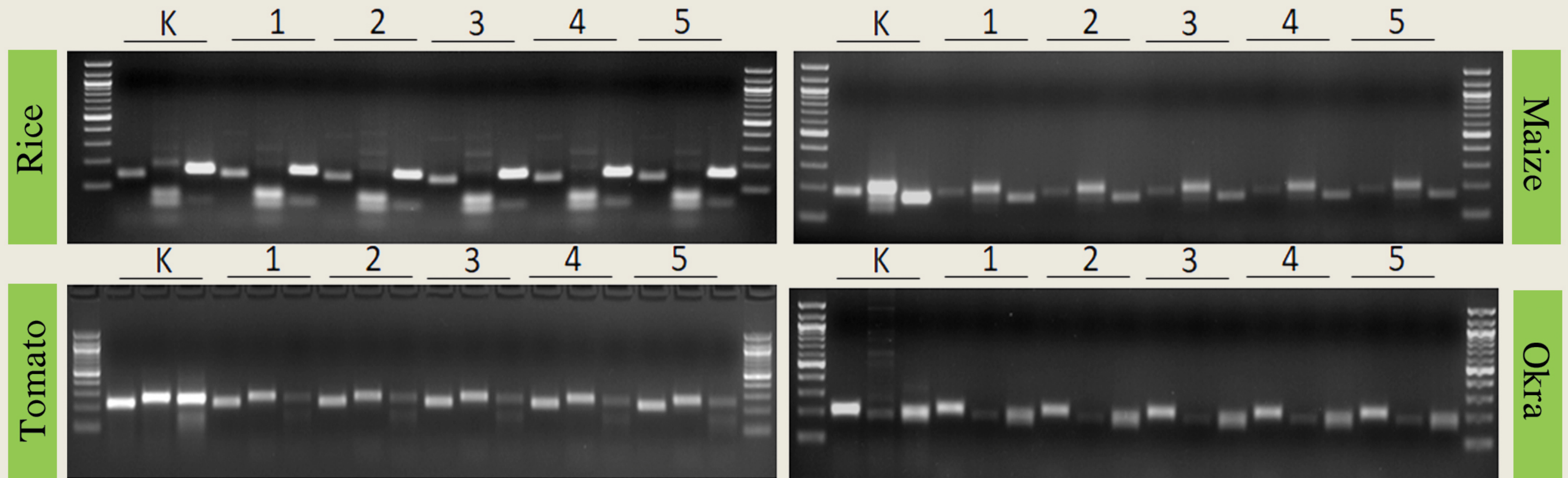
PCR Ready Plant DNA extraction reagent works with wide variety of species including but not limited to cereals (rice, maize), vegetables (tomato, brinjal, okra) and legumes (chick pea, pigeon pea). The reagent was also tested in other plant species such as tobacco, blackgram and brassica.



Amplification of single copy gene from different plant species.

a) Rice(Sucrose phosphate synthase) b) Maize(Mitogen-activated protein kinase) c) Tomato (Lat52) d) Brinjal e) Chick pea(O-methyl tranferase) f) Pigeon pea(Vicilin like protein). The DNA was extracted from 3 leaf punches immersed in 100 μ l of PCR Ready Plant DNA extraction reagent and collected after overnight storage at room temperature. PCR was conducted in a 25 μ l reaction using NEB standard Taq DNA polymerase.

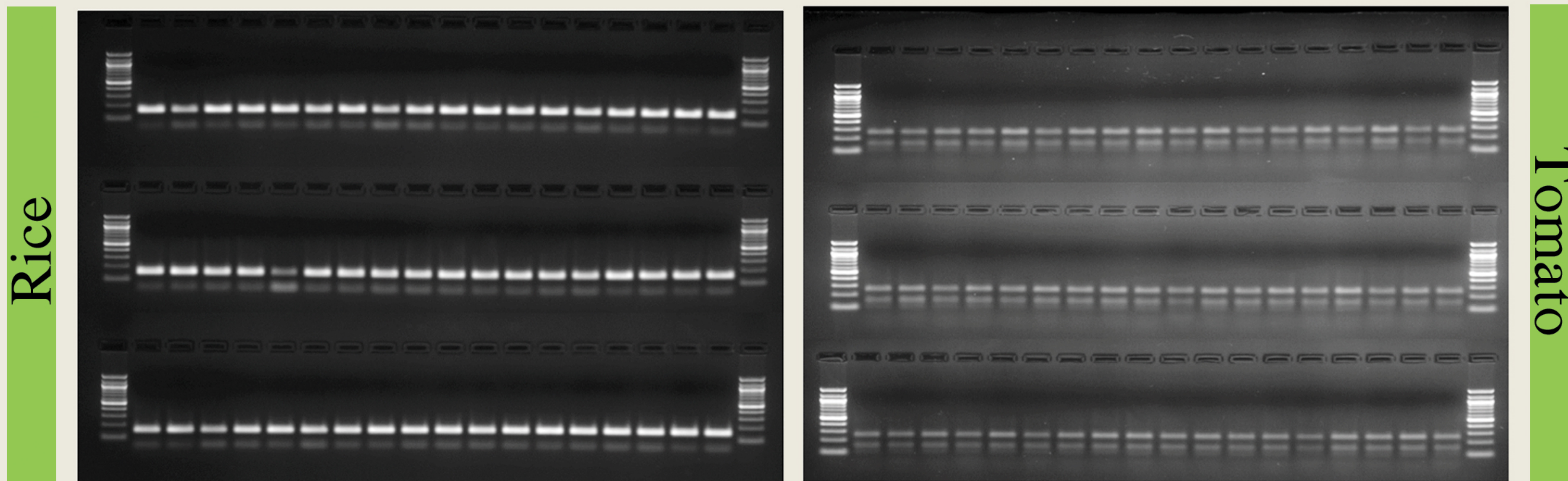
Application of PCR Ready Plant DNA Extraction reagent for marker analysis and its reliability in faithfully amplifying multiple amplicons was tested with comparing the results with kit isolated DNA using SSR markers.



Amplification of Simple Sequence Repeat (SSR) markers from leaf samples of rice, maize, tomato and okra. DNA was extracted from 3 leaf punches of maize, tomato, okra and small pieces of 2 cm rice leaf using 100 μ l of PCR Ready DNA Extraction reagent. Randomly selected SSR markers for each species was amplified using 2 μ l of extracted DNA(1-5) and 25ng of Kit purified DNA (K) in a 25 μ l reaction and resolved on 2 percent agarose gel

Reliability

The reliability of PCR Ready Plant DNA Extraction Reagent when using large number of samples in experiments such as marker analysis was tested in rice and tomato using SSR markers that gives multiple amplicons. The reagent was successful in amplifying and reproducing the banding pattern in all the 54 independent samples. The use of PCR Ready Plant DNA Extraction Reagent can ease the workflows of marker analysis and transgene screening with a reliable and simple DNA extraction procedure



Amplification of Simple Sequence Repeat (SSR) markers from leaf samples of rice and tomato. DNA was extracted from independent leaf punches of tomato and small pieces of rice leaf using 100 μ l of PCR Ready DNA Extraction reagent. SSR markers for each species was amplified using 2 μ l of extracted DNA and 25ng of Kit purified DNA (K) in a 25 μ l reaction and resolved on 2 percent agarose gel. 100bp DNA ladder was used.

Ordering Information:

Cat. No	Description	Size
VAS20181	PCR Ready Plant DNA Extraction Reagent	25 mL (250 samples)
VAS20182	PCR Ready Plant DNA Extraction Reagent	50 mL (500 samples)

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