

PK-T.palmi-050W - 50rxns

For research purposes only. Not for use in diagnostic procedures for clinical purposes.
FOR *IN VITRO* USE ONLY

Cat. No. PK-T.palmi-050W

Product Description:

The PK-T.palmi-050W Master Mix is designed to simplify the preparation of an isothermal amplification assay. The master mix contains a proprietary fast, novel DNA polymerase, proprietary thermostable inorganic pyrophosphatase, optimised reaction buffer, MgSO₄, dNTPs, ds-DNA binding dye (FAM detection channel) and optimised primers.

Stability:

The Isothermal Master Mix wet reagents are stable for a minimum of twelve months when stored at -20°C in a non-frost-free freezer.

Supplied Reagents:

1 vial containing 50rxn mastermix containing *Thrips palmi* primer mix

1 vial containing 0.6M Potassium hydroxide - cautious hazardous - especially to eyes - wear safety glasses

Usage:

Place insect into a tube containing 25µl 0.6M KOH. Incubate at 95°C for 5 minutes.

Add 25µl nuclease-free water and mix (i.e. dilute 1/2).

Add 5µl diluted extract (containing 0.3 M KOH) per 25µl LAMP reaction.

A typical 25µl reaction would contain the following:

Component	Volume	Final concentration
Isothermal Master Mix	20µl	1x
Template in 0.3M KOH	5µl	-
Total	25.0µl	

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Typical amplification conditions for this kit are:

Amplification 20mins 70°C
Anneal 98°C - 75°C - ramping at 0.05°C per second

Product anneal temperature; 80.5±1°C

Note:

Due to the presence of the inorganic pyrophosphatase there will be no accumulation of PPI.

Quality Control:

The Isothermal Master Mix has been tested for performance in Loop-mediated Isothermal DNA amplification.

Manufactured in the UK

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