

# Isothermal Master Mix - 300rxns

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

**Cat. No. ISO-DR004**

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## Product Description:

The Isothermal Master Mix is an optimised Master Mix designed to simplify the preparation of an isothermal amplification assay. The master mix contains a proprietary fast, novel GspSSD2.0 DNA polymerase, proprietary thermostable inorganic pyrophosphatase, optimised reaction buffer, MgSO<sub>4</sub>, dNTPs and a ds-DNA binding dye (FAM detection channel).

## Stability:

The Isothermal Master Mix dried reagents are stable for a minimum of twelve months when stored at room temperature. Ideally store cold.

## Supplied Reagents:

2 bottles, each containing 150rxn dried mastermix  
1 bottle, each containing 5ml of resuspension buffer

## Usage:

Add 2.25ml of the resuspension buffer to a dried mastermix bottle. Vortex gently to dissolve and leave to stand for 10mins before use.

A typical 25µl reaction would contain the following:

Component	Volume	Final concentration
Isothermal Master Mix	15.0µl	1x
Primers	5.0µl	-
Template	5.0µl	-
<b>Total</b>	<b>25.0µl</b>	

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**OptiGene Ltd.**

**Typical amplification conditions for this kit are:**

Amplification	30mins	65°C
Anneal	98°C - 80°C - ramping at 0.1°C per minute	

**Note:**

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

We recommend the following Primer levels per 25µl reaction

F3 & B3	5pmol each primer
LoopF & LoopB	10pmol each primer
FIP & BIP	20pmol each primer

**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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