Probe qPCR Master Mix

The Probe qPCR Master Mix Used for Target Gene Detection from samples

Catalog	Kit Size (RXN)
TBS4011-100	100
TBS4011-200	200

DESCRIPTION

Probe qPCR Master Mix Kit contains core components for probe qPCR reaction including PCR reaction Buffer, decontaminated enzymes, qPCR Master Mix, and Nuclease-Free water. It only needs to add specific primers, probes, and DNA samples. This kit can be used for food safety detection, plant, and cannabis relative products.

APPLICATIONS

This kit is used for probe-based qPCR amplification.

KEY FEATURES

- Avoid contamination in qPCR reaction.
- Flexible and automation compatible.
- Accurate detection and quantification of target genes.
- 5xPCR mix makes it easier to adjust the sample size in a one-tube reaction.

KIT CONTENTS

Component	100RXN	200RXN
5X qPCR Master Mix	0.5 mL	1.0 mL
10x RT-PCR Buffer	0.25 mL	0.5 mL
Decontaminate Enzyme (10 U/uL)	0.1 mL	0.2 mL
DEPC Water	1.0 mL	2x 1.0 mL

STORAGE CONDITIONS

Store all components at -20°C in a non-frost-free freezer.
Shelf life is 12 months after recipient.
The kit is shipped on ice.

PROTOCOL

Precautions: PCR reaction should be assembled in a nuclease-free environment. DNA sample preparation, reaction mixture assembly, PCR and subsequent reaction analysis should be performed in separate areas. The use of "clean", automatic pipettors designated for PCR and aerosol resistant barrier tips are recommended.

Note: Nuclease Removal (TBS6013) is useful for removing RNase contamination in the working area and tools.

1. DNA isolation is performed with a suitable approach. We recommend our microbial DNA Magnetic Extraction Kit (TBS6025) from plant samples.
2. Prepare the following reaction mixture on ice. The reach reaction volume is 20 µL.

Components	Volume (µL)
qPCR Masker Mix (5x)	4
qPCR Buffer (10x)	2
Decontaminated qPCR Enzymes	1
Primer-probe Mix*	1
DNA sample*	5
Nucleic-Free water	8
Final Volume	20 µ:

Note:

A. Gene specific primers, probe, and DNA sample is provided by end-user. The concentrations should be optimized before formal qPCR amplification.

B. For PCR mix preparation, the additional volume should be included.

3. Gently mix and ensure all the components are at the bottom of the amplification tube. Centrifuge briefly if needed.
4. Program Real-time qPCR machine for qPCR amplification as below:

Step	Temperature	Duration	Cycle(s)
1	95°C	1 min	1
2	95°C	15 secs	40
	60°C	1 min	

RELATED PRODUCTS

TBS6025: Microbial DNA Magnetic Extraction
TBS42019: Fusarium Species qPCR Detection
TBS42020: Universal Aspergillus qPCR
TBS42021: Aspergillus Flavus qPCR
TBS42022: Aspergillus Fumigatus qPCR
TBS42023: Aspergillus Niger qPCR
TBS42024: Aspergillus Terreus qPCR
TBS42025: 4-In-1 Aspergillus qPCR
TBS42026: O157H7 E. Coli qPCR
TBS42027: STEC qPCR
TBS42028: Salmonella qPCR
TBS42029: STEC and Salmonella Multiple qPCR
TBS42030: Mycoplasma Detection qPCR
TBS42031: Listeria Monocytogenes qPCR
TBS42032: Listeria Genus qPCR
TBS42033: Bacillus Cereus qPCR
TBS42043: Bacillus Species qPCR

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