Tribioscience

Curvularia Cymbopogonis TaqProbe-qPCR Detection

Probe based qPCR for Curvularia Cymbopogonis Detection

Catalog Number	Kit Size
TBS42010-50	50 RXN
TBS42010-100	100 RXN

DESCRIPTION

The Curvularia Cymbopogonis TaqProbe qPCR Detection is used to identify curvularia cymbopogonis in a single PCR reaction using real-time quantitative polymerase chain reaction (qPCR) and probe fluorescence labels. The detection of target DNA confirms if the plants have contaminated with this fungi species.

PRINCIPLE

Authenticating ingredients using real-time PCR is based on the amplification of a specific region of the relevant target genome. The amplified product is detected using target-specific fluorescent probes that bind to the amplified product. As the PCR product accumulates, there is an increased fluorescent signal from the bound probes. Monitoring the fluorescence intensities during the PCR run allows the detection of the accumulating PCR product in real time.

Tribioscience's Curvularia Cymbopogonis TaqProbe qPCR Detection includes positive, negative controls, PCR internal controls labeled with Hex, a qPCR super mix, and the target gene primer-probe mix in which the probe has been labeled with FAM for the target gene. These aid in a straightforward interpretation of the results.

KEY FEATURES

- ❖ High sensitivity and specificity for Curvularia Cymbopogonis.
- ❖ High efficiency: the optimal systemic conditions for PCR amplifications.
- ❖ Streamlined protocol: Just add DNA Template, and water.
- ❖ No cross reactivity with other species.

APPLICATIONS

Detect **C**urvularia cymbopogonis-derived DNA in plant, cannabis, and herbals.

KIT CONTENTS

Name	50x rxn	100x rxn
qPCP Super Mix	0.4mL	0.8mL
Primer-probe Mix	0.3mL	0.6mL
Positive Control DNA	50µL	100µL
Negative Control DNA	50µL	100µL

The fusarium probe is labeled with FAM, and PCR internal control is labeled with Hex.

STORAGE CONDITION

The kit is shipped on ice and stored at -20°C for long-term storage. Shelf life of 12 months after receipt.

PCR PROTOCOL

1. Set up PCR reaction for each sample in 20µL

Reaction Component	Volume (µL)
qPCR Super Mix (TFS1)	7.0
Primer-probe Mix (TFS2)	5.0
Nuclease-free Water	3.0
DNA sample	5.0
Final Volume	20µL

Internal control should be included as below: Positive Control: 5µL DNA/reaction; Negative Control: 5µL DNA/reaction.

2. Suggested PCR conditions

Step	Amplification	PCR	
	HOLD	CYCLE (40x cycles)	
		Denature	Anneal/ Extend
Temperature	95°C	95°C	60°C
Time	1 min	15 sec	30 sec

DATA ANALYSIS

Positive Reaction: Sample Ct ≤ 37 w/ Positive, Negative and Blank controls normal.
Negative Reaction: Sample Ct ≥ 38 w/ Positive, Negative and Blank controls normal.
PCR internal control is positive in all samples, positive and negative controls. The positive response indicates a normal PCR amplification. Otherwise, the PCR reaction may be inhibited.
Repeat Reaction: If one of the control reactions is not normal, PCR reaction is failed, and should be repeated.

RELATIVE PRODUCTS

TBS6025: Microbial DNA Magnetic Extraction
TBS42015: Hop Latent Viroid RT-qPCR System
TBS42019: Fusarium Species TaqProbe 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

For research use only.

365 San Aleso Ave, Sunnyvale, CA 94085 USA Website: www.tribioscience.com
Tel: 408-498-0197 / 650-917-9269, Fax: 650-618-5498 Email: order@tribioscience.com