

*Probe qPCR identify cannabis male/female in one reaction tube*

Catalog Number	Kit Size
TBS42046-100	100 assays
TBS42046-200	200 assays

### DESCRIPTION

Tribioscience's Cannabis Gender Detection qPCR Kit is designed for identifying cannabis male and female plants in a one PCR reaction using real-time quantitative polymerase chain reaction (qPCR) and probe fluorescence label. The kit provides a high fidelity, Accurate, sensitive, and time-saving method to identify cannabis plant gender.

The Cannabis Gender Detection qPCR Kit includes all of the essential components for qPCR amplification such as qPCR super mix, male-specific prime-probes (Fam), Cannabis/Hem specific primer-probe mix (Hex) as internal control, and cannabis female DNA control. All you need is to prepare DNA from cannabis plant sample.

### KEY FEATURES

- ❖ Highly sensitivity and specificity for gender identification.
- ❖ High efficiency: the optimal systemic conditions for PCR amplifications.
- ❖ Streamlined protocol: Just add DNA template and water.
- ❖ No cross reactivity with other species.

### APPLICATIONS

Identify male and female cannabis plants.

### KIT CONTENTS

Name	100RXN	200RXN
qPCP Super Mi	1.0 mL	2.0 mL
Primer-probe Mix	0.5 mL	1.0 mL
Cannabis Female Control	60 µL	120 µL
Cannabis Male Control	60 µL	120 µL

The Male DNA markers is labeled with **FAM**, and cannabis 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. Plant DNA preparation

A small piece of leave or seeds can be lysed in 40 µL of lysis buffer of Fast DNA Extraction Kit (**TBS6008**) at 67°C, 7min, then 95 °C for 5 min, cooling to the RT. Spin the tube in the centrifuge. Take 1- 2 µL for qPCR reaction.

#### 2. Set up PCR reaction as below:

Reaction Component	Volume (µL)
qPCP Super Mix	10
Primer-probe Mix	4
DNA sample	1~2
Nuclease-free Water	4~5
Final Volume	20 µL

Cannabis Female negative control, and male positive control should be included in the PCR amplification.

#### 3. Suggested PCR conditions

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

### DATA ANALYSIS

**Male Sample:** Ct < or = 35, and cannabis internal controls are normal.

**Female Samples:** Sample Ct ≥ 35 or non-amplification, and cannabis internal control normal.

If cannabis internal control cannot be amplified, the PCR reaction is failed, and should be repeated.

### RELATIVE PRODUCTS

TBS6025: Microbial DNA Magnetic Extraction  
 TBS42026: O157H7 E. Coli qPCR  
 TBS42027: STEC qPCR  
 TBS42028: Salmonella qPCR  
 TBS42029: STEC and Salmonella Multiple qPCR  
 TBS42030: Mycoplasma Detection qPCR  
 TBS42031: Listeria Monocytogen qPCR  
 TBS42032: Listeria Genus qPCR  
 TBS42033: Bacillus Cereus qPCR  
 TBS42020: Universal Aspergillus qPCR  
 TBS42021: Aspergillus Flavus qPCR  
 TBS42022: Aspergillus Fumigatus qPCR  
 TBS42023: Aspergillus Niger qPCR  
 TBS42024: Aspergillus Terreus qPCR

**For research use only.**