SinaClon
شرکت سیناکلون BioScience

Toxoplasma PCR Detection kit

REF PK3141

50 TESTS

Wet Ice

RUO

-20

Components

Contents	Amounts
Master Mix	1000µl
Taq DNA Polymerase	10µl
Positive DNA Control	100µl
DNase Free Deionized Water	1000µl

Description

SinaClon Toxoplasma gondii PCR Detection kit is designed for qualitative detection of T. gondii DNA in infected samples by the method of Polymerase Chain Reaction. The reagent of ready to use mix is an optimized Master Mix of PCR buffer, $MgCl_2$, dNTPs and primers. Primer set is specific to the highly specific repetitive region of B1 gene. This primer set allows for detection of 45 copies of Toxoplasma gondii.

A. DNA Extraction

DNA can be extracted by commercial stool and soil DNA extraction kits or in-house method. Human or tissue samples can also be extracted by SinaClon DNA extraction kits: DNP™ (Cat. No.: EX6071) or SinaPure™ (Cat. No.: EX6011).

B. PCR Protocol

1. Take out the kit and let it to be thawed on ice.
2. Label the PCR tubes as **positive**, **negative** control and **test** (Patient sample).
3. Add 19.8µl Master Mix to each tube on ice (Mix & spin before use).
4. Add 0.2µl Taq DNA Polymerase to each tube on ice.
5. Close the reaction tubes and place on tray or in a resealable plastic bag and seal the bag securely. Transfer tubes to Extraction Area.
6. Add 5µl DNA (Use specified pipette for sampling of DNA) to each patient's sample tube and 5µl Positive DNA Control to **positive** tube and DNase Free Deionized Water to **negative** tube (The final volume of each reaction will be 25µl).

7. Close the tubes, spin the mixture on microfuge 3-5 sec. and transfer the tubes to preheated thermocycler and start the following program:

Cycling parameters		
First	**Then**	**Last**
94°C – 300 Sec	94°C - 30 Sec 60°C - 30 Sec 72°C - 30 Sec	72°C – 300 Sec
1 cycle	**34 cycles**	**1 cycle**

Cycling parameters may need to be setup with some Thermocyclers.

C. Result Analysis

Analyze amplified fragments by loading of 10µl PCR product on 2-3% agarose gel directly without adding loading buffer. The presence of 115bp fragments indicates positive test.

For gel electrophoresis use of **50bp DNA Ladder** (Cat. No: SL7021) is recommended.

Signs

Signs	Definitions
	Temperature range on product use
	For Research Use Only
	Name and address of the manufacturer of the product
	Product technical code
	Product shipping conditions

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