

## Helicobacter pylori PCR Detection Kit

Cat. No.: PK3011

Shipment: Wet Ice

Storage: -20°C

Quantity: 20 Reactions

### Description:

*Helicobacter pylori* PCR Detection kit is destined for qualitative detection of *Helicobacter pylori* DNA in culture or human gastric biopsy by the method of Polymerase Chain Reaction.

### Kit Contents:

The kit for 20 amplification reactions consists of:

1. 1X PCR MIX	400µl
2. Taq DNA polymerase(5 u/µl)	4µl
3. Mineral Oil	2.0ml
4. Positive Control	25µl
5. DNase Free Deionized Steril Water	5.0ml

- The Kit should be stored at - 20°C.

### DNA Extraction:

#### Performed in Pre-amplification 1, Specimen & Control Area

Sample DNA can be extracted using SinaClon DNP™ (Cat.No.: EX6071) or SinaPure™ (Cat.No.: EX6011).

### PCR Protocol:

#### Performed in Pre-Amplification 2, Reagent Preparation Area

1. Take out the kit and unfreeze the tubes, then put all the tubes on ice. The final volume of each reaction will be 25µl.
2. Label new 0.5 ml tubes for amplification reaction(s) for test(s), positive and negative control.
3. Add the following reagents for each tube on ice:

<b>1X PCR MIX</b>	<b>20µl</b>
<b>Taq DNA polymerase</b>	<b>0.2µl</b>

4. Mix the mixture thoroughly by shaking and spin.
  5. To each tube add one drop (20-25µl) mineral oil.
- Cap the reactions tube or Place the tube tray in a resealable plastic bag and seal the bag securely, don't cap tubes at this time. Next steps should be done at:

#### Pre -Amplification 1, Specimen & Control Preparation Area

6. Add 5µl DNA\* (Use specified pipette for sampling of DNA).
7. Close tubes, spin the mixtures on microfuge for 3-5 seconds.
8. Transfer the tubes to preheated thermocycler and start the program:

### Cycling parameters:

First	Then
94°C - 45 sec	94°C - 20 sec
50°C - 20 sec	50°C - 20 sec
72°C - 30 sec	72°C - 30 sec
<b>5 cycles</b>	<b>30 cycle</b>

(Cycling parameters may need to be setup with some Thermocyclers.)

### Results Analysis

#### Performed in Post-Amplification Area

Analyze 10µl of amplified samples directly in a 1% agarose gel without adding loading buffer. The presence of **492 bp** fragments indicates **positive test**.

For gel electrophoresis use of 100bp Ladder (Cat. No.: SL7031) is recommended.

For Research Use Only

### SinaClon BioScience

[www.sinaclon.com](http://www.sinaclon.com)

Central Office: No. 56, Azimi St., Nafisi Ave., Phase 1, Ekbatan, Tehran, Iran, 1393833161

Tel: +98(0)21 4463 0050-51

+98(0)21 4466 5156

Customer Service: +98(0)902 3120059

+98(0)21 4463 3016

Place your order: [order@sinaclon.com](mailto:order@sinaclon.com)