

Herpes Simplex virus I&II Detection Kit

For Research Use Only

Cat.No. : PK3051

Quantity: 20 Reactions

Shipment: Wet/Dry Ice

Storage: -20°C

Description:

This kit is designed for qualitative detection of Herpes simplex Virus I&II (HSV I&II) DNA in the Human sample by the method of Polymerase Chain

Reaction.

1x PCR MIX 20 µl

Taq DNA polymerase 0.2 µl

Kit Contents:

The kit for 20 amplification reactions consists of:

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|-------------------------------|---------------|
| 1. 1X PCR MIX | 400 µl |
| 2. Taq DNA polymerase | 4 µl (5U/µl) |
| 3. Positive Control | 25µl (1pg/µl) |
| 4. Mineral Oil | 1 ml |
| 5. DNase Free Deionized Water | 5ml |

• **NOTE:** To avoid contamination all reagents must be taken with separate clean tips!

- Mix the mixture thoroughly by shaking and spin.
- To each tube add one drop (20-25 µl) mineral oil.
- Add 5µl DNA (Use specified pipette for sampling of DNA).
- Close tubes; spin the mixtures on microfuge for 3-5 sec.
- Transfer the tubes to preheated thermocycler and start the program:

Cycling parameters:

94°C	2min	} 33 cycles
94°C	30 sec	
62°C	15 sec	
72°C	40 sec	
72°C	5 min	

Sample preparation:

Performed in Pre-amplification, specimen, and control preparation area.

DNA Extraction of Cerebrospinal fluid (CSF):

Reagents for DNA extraction are not included in this kit and should be ordered separately.

• DNP™ kit (Cat. No.: EX6071), SinaPure™ DNA Extraction (Cat No.:EX6011) is recommended for DNA extraction from CSF samples.

DNA can also be extracted by other standard method like Phenol/Chloroform.

Label tubes for patient, negative & positive controls.

PCR Protocol:

Performed in Pre-amplification, Reagent preparation area.

- Defreeze reagents in room temperature and then put all the tubes on ice. Vortex and spin tubes before opening. The final volume of each PCR reaction will be 25 µl.
- Label new 0.5 ml tubes for test(s), positive and negative control.
- Add the following reagents for each tube on ice:

Result analysis:

Performed in Pre-amplification area

Analyze 10 µl of amplified samples directly in a 2% agarose gel without adding loading buffer. The presence of **256 bp** fragment indicate positive test.

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