

## Cytomegalovirus PCR Detection Kit

Cat. No.: PR7836C  
Shipment: Wet Ice

Quantity: 50 Reactions  
Storage: -20°C

### Description

This kit designed for qualitative detection of human sample by the method of polymerase chain reaction. CinnaGen Cytomegalovirus PCR Detection Kit may be used in detected CMV DNA an estimate efficiency of the applied therapy.

### Kit Contents:

The kit for 50 amplification reactions consists of:

1. 1x PCR MIX	1000µl	4. Mineral Oil	2ml
2. Taq DNA polymerase	15µl (5u/µl)	5. Positive Control	50µl (1pg/µl)
3. DNase Free, Deionized Sterile Water	5ml		

The Kit should be stored at - 20°C.

### DNA Extraction:

DNA can be extracted using DNP™ (# DN8115C) or using other standard methods.

### PCR Protocol:

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

1x PCR MIX	20µl
Taq DNA polymerase	0.3µl

- Note: To avoid contamination all reagents must be taken with separate clean tips!

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

### Cycling parameters:

95°C - 180sec  
62°C - 40sec  
72°C - 40sec  
1 cycle

93°C - 40sec  
61°C - 40sec  
72°C - 40sec  
35 cycles

Analyze 10µl of amplified samples directly in a 2% agarose gel without adding loading buffer. The presence of 222bp fragments indicates positive test.