

Certificate of Analysis

Murine Cytomegalovirus PCR Positive Control DNA

Catalog Number: PCRPC122

Date: August 2012

Volume: 250 μ l

DNA Concentration: 100 ng/ μ l, Use 50 ng (0.5 μ l) to 100 ng (1 μ l) per PCR reaction.

Specific Activity: At least 500 copies per μ l.

Storage conditions: -20° C to -70° C

Observations: The PCR reaction does not work as well using a PCR master mix that contains the *Taq* polymerase.

Typical PCR reaction: Total volume 50 μ l, 25 μ l water, 5 μ l 10x PCR Buffer, 2 μ l 50 mM MgSO₄, 1 μ l 10 mM dNTP mix, 1 μ l 10 μ M Forward Primer, 1 μ l 10 μ M Reverse Primer, DNA 0.5 to 5 μ l, add water to 49.5 μ l, and add last 0.5 μ l *Taq* Polymerase. Mix, spin down gently, and put tubes in thermal cycler.

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|--|-------------|----------|
| Typical Thermal Cycler Program: | 1. 94° C | 2 min |
| | 2. 94° C | 15 sec |
| | 3. 55° C | 30 sec |
| | 4. 0.5°/sec | to 68° C |
| | 5. 68° C | 2 min |
| | 6. Go to 2 | 35 times |
| | 7. 72° C | 5 min |
| | 8. 4° C | forever |
| | 9. End | |

MCMV IE Gene 1, exon 4 PCR Primer sequences:

Forward 700 base 5'-ATC AAT CAG CCA TCA ACT CTG CTA-3'

Reverse 700 base 5'-ATG GTG AAG CTA TCA AAG ATG TGC-3'

This product is distributed for laboratory research use only. The safety and efficacy of this product in diagnostic or other clinical uses has not been established.