

Certificate of Analysis

Guinea Pig Cytomegalovirus

PCR Positive Control DNA

Catalog Number: PCRPC161

Date: August 2012

Volume: 250 μ l, about 250 reactions

DNA Concentration: 200 ng/ μ l in TE buffer, Use 100 ng (0.5 μ l) to 200 ng (1 μ l) per PCR reaction.

Specific Activity: At least 500 copies per μ l.

Storage conditions: -70° C

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.

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	

GP-CMV GP 83 Protein PCR Primer sequences (225 bases amplified):

Forward 5'-CGA CGA CGA CGA TGA CGA AAA C-3'

Reverse 700 base 5'-TCC TCG GTC TCA ACG AAG GGT C-3'

Reference: Schleiss, M.R., et.al., Antiviral Research **65**(1): 35-43, 2005

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