

# Certificate of Analysis

## Guinea Pig Cytomegalovirus PCR Positive Control DNA

**Catalog Number:** PCRPC161

**Date:** August 2012

**Volume:** 250  $\mu$ l, about 250 reactions

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

**Specific Activity:** At least 500 copies per  $\mu$ l.

**Storage conditions:** -70° C

**Typical PCR reaction:** Total volume 50  $\mu$ l, 25  $\mu$ l water, 5  $\mu$ l 10x PCR Buffer, 2  $\mu$ l 50 mM MgSO<sub>4</sub>, 1  $\mu$ l 10 mM dNTP mix, 1  $\mu$ l 10  $\mu$ M Forward Primer, 1  $\mu$ l 10  $\mu$ M Reverse Primer, DNA 0.5 to 5  $\mu$ l, add water to 49.5  $\mu$ l, and add last 0.5  $\mu$ l *Taq* Polymerase. Mix, spin down gently, and put tubes in thermal cycler.

<b>Typical Thermal Cycler Program:</b>	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

**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.**