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Certificate of Analysis

Lymphocytic Choriomeningitis Virus

PCR Positive Control

Catalog Number: PCRPC111

Date: August 2012

Volume: 250 µl, 15-20 First Strand Reactions, 250-400 PCR Reactions

RNA Concentration: 200 ng/µl of RNA in TE buffer. Use 10-15 µl per first strand reaction.

Specific Activity: At least 500 copies per µl.

Storage conditions: -70° C

First Strand Reaction: primed with oligo dT or anti-sense REV oligo at 1 µl of a 2 µM solution.

Typical PCR reaction: Total volume 50 µl, 25 µl water, 5 µl 10x PCR Buffer, 2 µl 50

mM MgSO₄, 1 µl 10 mM dNTP mix, 1 µl 10 µM Forward Primer, 1 µl 10 µM Reverse Primer, DNA 0.5 to 1 µl, add water to 49.5 µl, and add last 0.5 µl *Taq* Polymerase. Mix, spin down gently, and put tubes in thermal cycler. Alternatively, a master mix including everything except some water and DNA may be used.

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 | |

PCR Primers: FOR 5'-TCA TCG ATG AGG TGA TCA AC-3'

REV 5'-CTT GGT GAA CTC TCT AGA CT-3'

References: Yin, C. Journal of Virology **72:11** November 1988, pages 8613-8619.

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.