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Certificate of Analysis

Minute Virus of Mice (MVM)

PCR Positive Control DNA

Catalog Number: PCRPC104

Date: August 2012

Volume: 100 µl, 100 Reactions

MVM: Minute Virus of Mice is a member of the Parvovirus, is common in prevalence, is transmitted by direct contact, has a DNA genome, and two named strains have been identified (prototype and immunosuppressive). Virus infection requires receptor and replication during S-phase in dividing cells.

DNA Concentration: 150 ng/µl of DNA in TE buffer. Use 0.5 to 1.0 µl per PCR reaction.

Specific Activity: At least 500 copies per µl.

Storage conditions: -20° C to -80° C

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'-GAG CGC CAT CTA GTG AGC-3'

Rev 5'-ATT TGC CTG TGC TGG CTG-3'

References: Mahabir, E. et al. *Biol. Reprod.* 2009. **81**(3): 531-538. Bootz, F. et al. *Lab Anim.* 2003. **37**:341-351.

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