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Certificate of Analysis

Pneumocystis murina PCR Positive Control

Catalog Number: PCRPC131

Date: March 2015

Volume: 250 μl, 250 PC Reactions

DNA Concentration: 200 ng/µl 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 -70° 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-2139-5'-GAA CTC AAG GAA ATT GTA CGG CAG -3'-2163

REV-3040-5'-TGT TCC TGG TGT TGA TGG TGC T-3'-3061

Gel fragment of 922 bases

References: Linke, MJ., et al. Respiratory Research **10:**10 Pages 1-15, 2009.

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