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## **Certificate of Analysis**

## Streptobacillus moniliformis PCR Positive Control

Catalog Number: PCRPC183

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**Volume**: 250 μl, 250 PC Reactions

**DNA Concentration:** 200 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 -70° C

Typical PCR reaction: Total volume 50 µl, 25 µl water, 5 µl 10x PCR Buffer, 2 µl 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 1  $\mu$ 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. 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'-CAT ACT CGG AAT AAG ATG G-3' PCR product is 269 bases

REV 5'-GCT TAG CTC CTC TTT GTA C-3'

**References:** Kimura, M. et al., Detection of Streptobacillus spp. in feral rats by specific polymerase chain reaction. **Microbiol Immunol 52**:9-15, 2008.

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