

Diagnostic Plasmid Containing the Small Subunit Ribosomal RNA Gene (18S) from *Plasmodium malariae*

Catalog No. MRA-179

Product Description:

The small subunit ribosomal RNA gene (18S rRNA gene; GenBank: [AF145336](#)) from *Plasmodium malariae* (*P. malariae*) was amplified from genomic DNA by nest 1 PCR primers and cloned into vector pCR2.1-TOPO (Invitrogen™). The resulting plasmid (clone 34) may be used in PCR assays for the diagnosis of mixed species malaria infections. MRA-179 lot 70051095 was extracted from a preparation of BEI Resources seed lot 2176, produced in One Shot® TOP10 chemically competent *Escherichia coli* (Invitrogen™) and extracted using a QIAprep® Spin Miniprep Kit (QIAGEN® 27104).

Lot: 70051095

Manufacturing Date: 19MAR2022

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 5,100 base pairs	5,122 base pairs
Genotypic Analysis Sequencing of 18S ribosomal RNA gene (~ 1110 base pairs)	≥ 99% sequence identity to <i>P. malariae</i> 18S rRNA gene (GenBank: AF145336.1)	100% sequence identity to <i>P. malariae</i> 18S rRNA gene (GenBank: AF145336.1)
Concentration by PicoGreen® Measurement	≥ 2 µg per mL	0.2 µg in 20 µL per vial (10 µg per mL)
Amount per Vial	Report results	0.2 µg per vial
OD ₂₆₀ /OD ₂₈₀ Ratio	1.7 to 2.1	1.9

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01 SEP 2022

Technical Manager or designee, ATCC Federal Solutions

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