

Certificate of Analysis for MRA-153G

Genomic DNA from *Plasmodium falciparum*, Strain T9/94

Catalog No. MRA-153G

Product Description:

Genomic DNA was extracted from a preparation of *Plasmodium falciparum* (*P. falciparum*), strain T9/94. MRA-153G was produced from a cell culture of BEI Resources seed lot 64036560. Genomic DNA was extracted using proprietary technology. MRA-153G lot 70062156 was vialled in TE buffer (10 mM Tris-HCl and 0.5 mM EDTA, pH 9). Testing was completed on bulk material prior to freezing.

Lot: 70062156

Manufacturing Date: 10OCT2024

TEST	SPECIFICATIONS	RESULTS
Sequencing of Merozoite Surface Protein 2 (MSP2) gene (~ 730 base pairs)	Consistent with <i>P. falciparum</i>	Consistent with <i>P. falciparum</i>
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA
Concentration by PicoGreen® Measurement	Report results	~ 0.5 µg in 50 µL/vial (10 µg/mL)
Amount per Vial	Report results	~ 0.5 µg
Functional Activity by PCR Amplification MSP2 locus ¹	~ 600-900 base pair amplicon	~ 900 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.6 to 2.1	2
Protozoan Inactivation Human erythrocytes exposed to 10% of total yield of MRA-153G ^{2,3}	No parasitemia observed	No parasitemia observed
Mycoplasma Contamination DNA Detection by PCR	None detected	None detected

¹Primer sequences and conditions for PCR are available upon request.

²18 days in complete RPMI culture medium at 37°C in sealed flasks outgassed with blood-gas atmosphere (90% N₂, 5% CO₂, 5% O₂). Complete RPMI culture medium was changed and parasitemia checked every 1 to 3 days.

³An extraction procedure was used that has been shown to consistently inactivate 100% of *Plasmodium* parasites.

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31 OCT 2024

Technical Manager or designee, ATCC Federal Solutions

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