

Genomic DNA from *Plasmodium falciparum*, Strain Tanzania (2000708)

Catalog No. MRA-1169G

Product Description: Genomic DNA was obtained from a preparation of *Plasmodium falciparum* (*P. falciparum*), strain Tanzania (2000708).

Lot^{1,2}: 61553001

Manufacturing Date: 18JUN2013

TEST	SPECIFICATIONS	RESULTS
Sequencing of Merozoite Surface Protein 2 (MSP2) gene (~ 690 base pairs)	≥ 99% sequence identity to <i>P. falciparum</i> , strain Tanzania (2000708) (GenBank: AOPR01000217.1)	100% sequence identity to <i>P. falciparum</i> , strain Tanzania (2000708) (GenBank: AOPR01000217.1)
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA
Concentration by NanoDrop Measurement	Report results	~ 500 ng in 50 µL per vial (10 ng/µL)
Amount	Report results	~ 500 ng per vial
Functional Activity by PCR Amplification MSP2 locus ³	~ 600-900 base pair amplicon	~ 850 base pair amplicon (Figure 1)
OD₂₆₀/OD₂₈₀ Ratio	1.6 to 2.1	2.2 ⁴

¹MRA-1169G was produced from a cell culture of the deposited material. Genomic DNA was extracted using proprietary technology. Note: MRA-1169G lot 61553001 has not been tested for protozoan inactivation; however, an extraction procedure was used that has been shown to consistently inactivate 100% of malaria parasites.

²MRA-1169G lot 61553001 was vialled in TE buffer (10 mM Tris-HCl and 0.5 mM EDTA, pH 9).

³Primer sequences and conditions for PCR are available upon request.

⁴The ratio of the absorbances at these wavelengths (260/280) should fall in the range of 1.6 to 2.1 for suitably pure protist DNA. For MRA-1169G lot 61553001, the average OD₂₆₀/OD₂₈₀ ratio of 3 measurements did not meet these specifications; however, the DNA was proven functional via PCR.

Date: 12 JAN 2018

Signature:



BEI Resources Authentication

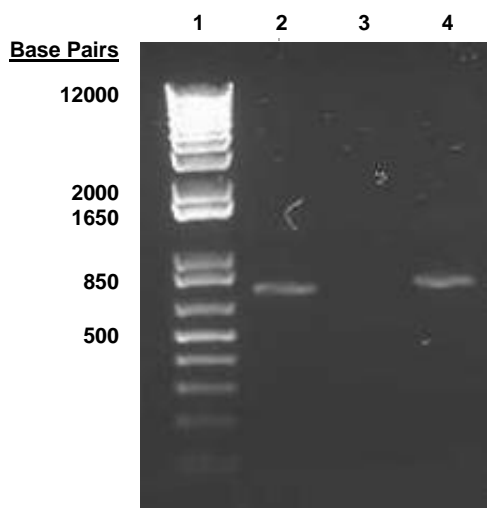
ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.



Figure 1: *P. falciparum* MSP2 locus PCR



Lane 1: High MW DNA Ladder
Lane 2: Positive control (*P. falciparum* HB3-B2)
Lane 3: Negative control
Lane 4: MRA-1169