

Genomic DNA from *Plasmodium falciparum*, Strain HB3

Catalog No. MRA-155G

This reagent is the tangible property of the U.S. Government.

Product Description: Genomic DNA was extracted from a preparation of *Plasmodium falciparum* (*P. falciparum*), strain HB3.

Lot^{1,2}: 61219197

Manufacturing Date: 24OCT2012

TEST	SPECIFICATIONS	RESULTS
Sequencing of Merozoite Surface Protein 2 (MSP2) gene (~ 690 base pairs)	≥ 99% sequence identity to <i>P. falciparum</i> , strain HB3 (GenBank: AANS01000284)	99.1% sequence identity to <i>P. falciparum</i> , strain HB3 (GenBank: AANS01000284)
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by NanoDrop Measurement	Report results	~ 500 ng in 50 µL per vial (10 ng/µL)
Amount per Vial	Report results	~ 500 ng
Functional Activity by PCR Amplification MSP2 locus³	~ 600 to 900 base pair amplicon	~ 800 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.6 to 2.1	2.2 ⁴

¹MRA-155G was produced from a cell culture of BEI Resources MRA-155 lot 61219195. Genomic DNA was extracted using proprietary technology.

Note: MRA-155G lot 61219197 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-155G lot 61219197 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-155G lot 61219197, the average OD₂₆₀/OD₂₈₀ ratio of 3 measurements did not meet these specifications; however, the DNA was proven functional via PCR.

Date: 24 JAN 2018

Signature:

BEI Resources Authentication

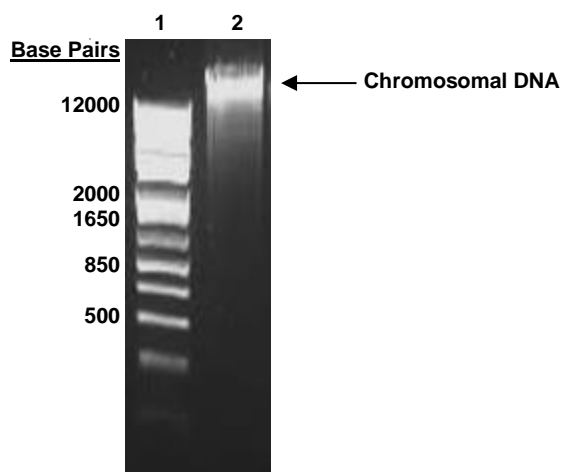
ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s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



Lane 1: Invitrogen™ 1 Kb Plus DNA Ladder
Lane 2: ~ 670 ng of MRA-155G