

Genomic DNA from *Plasmodium falciparum*, Strain 3D7

Catalog No. MRA-102G

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 3D7.

Lot^{1,2}: 63834915

Manufacturing Date: 18DEC2015

TEST	SPECIFICATIONS	RESULTS
Sequencing of Merozoite Surface Protein 2 (MSP2) gene (~ 780 base pairs)	≥ 99% sequence identity to <i>P. falciparum</i> , strain 3D7 (GenBank: LN999943.1)	100% sequence identity to <i>P. falciparum</i> , strain 3D7 (GenBank: LN999943.1)
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® 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	~ 900 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.6 to 2.1	2.1
Protozoan Inactivation Human erythrocytes exposed to 10% of total yield of MRA-102G ^{4,5}	No parasitemia observed	No parasitemia observed
Mycoplasma Contamination DNA Detection by PCR	None detected	None detected

¹MRA-102G was produced from a cell culture of BEI Resources MRA-102 lot 7597013. Genomic DNA was extracted using proprietary technology.

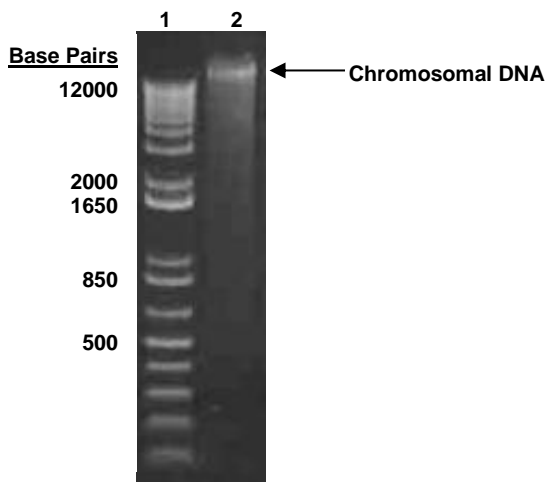
²MRA-102G lot 63834915 was vialled in TE buffer (10 mM Tris-HCl and 0.5 mM EDTA, pH 9).

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

⁴14 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 2 to 3 days.

⁵An extraction procedure was used that has been shown to consistently inactivate 100% of *Plasmodium* parasites.

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder

Lane 2: 664 ng of MRA-102G

/Heather Couch/
Heather Couch

28 AUG 2018

Program Manager or designee, ATCC Federal Solutions

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.

