Genomic DNA from *Plasmodium falciparum*, Strain 3D7

Catalog No. MRA-102G

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

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Genomic DNA was extracted from a preparation of *Plasmodium falciparum (P. falciparum)*, strain 3D7.

P. falciparum, strain 3D7 was cloned from the NF54 strain by limiting dilution; it is reported as a pyrimethamine-sensitive strain.[1] The parent NF54 strain was isolated from a patient from the Netherlands who had never left the country.[1] The complete genome of *P. falciparum*, strain 3D7 has been sequenced (BioProject: PRJNA13173).[2]

MRA-102G has been qualified for PCR applications by amplification of approximately 900 base pairs of the merozoite surface protein 2 (MSP2) gene.

Material Provided:

Each vial of MRA-102G contains approximately 0.5 µg of genomic DNA in buffer. The amount per vial, concentration and buffer composition are shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

MRA-102G was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic DNA from *Plasmodium falciparum*, Strain 3D7, MRA-102G, contributed by Daniel J. Carucci."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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References:

1. Walliker, D., et al. "Genetic Analysis of the Human Malaria Parasite *Plasmodium falciparum*." Science 236 (1987): 1661-1666. PubMed: 3299700.
2. Gardner, M. J., et al. "Genome Sequence of the Human Malaria Parasite *Plasmodium falciparum*." Nature 419 (2002): 498-511. PubMed: 12368864.

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