

Complimentary DNA from *Plasmodium falciparum*, Strain 3D7, Asynchronous Blood Stage
Catalog No. MRA-898

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

Product Description:

Total RNA was purified from an asexual blood stage asynchronous culture of *Plasmodium falciparum*, Strain 3D7 (MRA-102) cultured *in vitro*. Complementary DNA (cDNA) was synthesized from the total RNA by reverse transcription. MRA-898 lot 70073102 was vialled in nuclease-free water.

Lot: 70073102
Manufacturing Date: 03JUNE2026

TEST	SPECIFICATIONS	RESULTS
Concentration by PicoGreen® Measurement	Report results	~ 2 ng/μL
Amount per Vial	Report results	~ 50 ng
Functional Activity by PCR Amplification ^{1,2} msp2, dnaJ, s16 and csp1 loci	Expected amplicons observed	Expected amplicons observed
OD ₂₆₀ /OD ₂₈₀ Ratio	1.6 to 2.1	1.8
Protozoan Inactivation ^{3,4} Human erythrocytes exposed to 10% of total yield of MRA-898	No parasitemia observed	No parasitemia observed

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

²The cDNA PfdnaJ amplicon of MRA-898 was smaller in size compared to that of 3D7 gDNA. This reflects excision of the 200bp intron from the mRNA resulting in a smaller cDNA fragment, compared to the gDNA.

³18 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.

⁴An extraction procedure was used that has been shown to consistently inactivate 100% of *Plasmodium* parasites.

/Sonia Bjorum Brower/

Sonia Bjorum Brower

03 AUG 2026

Technical 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.

