

Plasmodium falciparum, Strain FCR-3/Gambia Clone D-3, Knobless

Catalog No. MRA-738

Product Description: *Plasmodium falciparum* (*P. falciparum*), strain FCR-3/Gambia Clone D-3, Knobless is a clone derived from isolate FCR-3/FMG (Gambia) after four years of continuous culture by W. Trager by microscopic selection. MRA-738 was derived from ATCC® 50037™, which was deposited at ATCC® by W. Trager.

Lot¹: 60918113

Manufacturing Date: 01MAY2012

TEST	SPECIFICATIONS	RESULTS
Identification by Giemsa Stain Microscopy^{2,3}	Blood-stage parasites present	Blood-stage parasites present
Level of Parasitemia Pre-freeze ^{4,5} Ring-stage parasitemia Post-freeze ^{2,6} Ring-stage parasitemia Total parasitemia	Report results Report results ≥ 1%	4.00% 1.23% 1.54%
Viability^{2,7}	Growth in infected red blood cells	Growth in infected red blood cells
Mycoplasma Contamination² DNA Detection by PCR	None detected	None detected

¹MRA-738 was produced by cultivation of BEI Resources MRA-738 lot 4598054 in fresh human erythrocytes suspended in RPMI 1640 medium, adjusted to contain 10% (v/v) heat-inactivated human serum (pooled Type A), 25 mM HEPES, 2 mM L-glutamine, 4 g/L D-glucose, 0.005 µg/mL hypoxanthine and 2.5 µg/mL gentamicin. The culture was incubated at 37°C in sealed flasks outgassed with blood-gas atmosphere (90% N₂, 5% CO₂, 5% O₂) and monitored for parasitemia daily for 18 days. Every 1 to 3 days, uninfected, leukocyte filtered, Type O erythrocytes in complete culture medium were added dropwise to the culture as needed and monitored for hematocrit.

²Testing completed on vial post-freeze material.

³Blood-stage malaria parasites (rings, trophozoites, schizonts +/- gametocytes) were examined by microscopic Giemsa-stained blood smears of an *in vitro* human blood culture over 4 days.

⁴Testing completed on bulk material prior to vialing and freezing.

⁵Parasitemia was determined after 18 days post infection by microscopic counts of Giemsa-stained blood smears.

⁶Parasitemia was determined after 4 days post infection by microscopic counts of Giemsa-stained blood smears.

⁷Viability was confirmed by examination of infected erythrocytes for parasitemia at 4 days post infection.

/Heather Couch/

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Program Manager or designee, ATCC Federal Solutions

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