Product Information Sheet for MRA-745

PARASITE

MR4 Number: MRA-745

Organism: *Plasmodium chabaudi chabaudi*

Clone: AS(50S/P)

Original Host: *Thamnomys rutilans* AS (399BY)

Original Isolate: AS

Isolate Collection Date: 1969

Isolate Location: Central African Republic, La Maboké field station

Clone Details: Clone AS(50S/P) produced in Edinburgh, first by treatment of clone AS(Pyr1) with sulfadoxine/pyrimethamine to produce resistant mutant, followed by cloning by dilution and inoculation into mice.

Cloner: K. Hayton

Date of Cloning: Sept. 8, 1998

Drug Profile: LD50s not known. CQ: Sensitive. QN: Unknown. MFQ: Sensitive. ART: Unknown. Pyr: Resistant. Grows at standard dose of 10 mg/kg pyrimethamine for 4 days. Pyrimethamine/sulfadoxine: Resistant. Mutant AS(50S/P) was selected by treatment of mice infected with AS(Pyr1) with 125 mg/kg sulfadoxine /5.25 mg/kg pyrimethamine for 4 days. AS(50S/P) grows at standard dose of 50 mg/kg sulfadoxine/1.25mg/kg pyrimethamine 4 days. Sulfadoxine: Low resistance. Grows at 150 mg/kg sulfadoxine administered for 4 days.

Comments: *P. c. chabaudi* AS(50S/P) is a sulfadoxine/ pyrimethamine-resistant clone, derived from AS(Pyr1) which is resistant to pyrimethamine alone.

Depositor: David Walliker, University of Edinburgh.

Unit size: 0.2 ml

Propagated in: Mouse

History:
Original thicket-rat (Thamnomys rutilans) AS (399BY) containing *P. c. chabaudi* trapped by Y. Boulard, sent to Paris, France, then Edinburgh (1969). Derived by treatment of clone AS(Pyr1) with sulfadoxine/pyrimethamine to produce resistant mutant, followed by cloning by dilution and inoculation into mice.

References:
Hayton, K., Ranford-Cartwright, L.C. and Walliker, D. (2002) Sulfadoxine-pyrimethamine resistance in the rodent malaria parasite Plasmodium chabaudi. Antimicrobial Agents and Chemotherapy 46, 2482 – 2489.

Amplification:
Cryopreserved material should be injected in mice via the i.p. route. To maintain the strain in vivo, passage infected blood from donor to recipient mice via the i.v. route.

Cryopreservation:
Deep freeze solution: 28% glycerol, 3% sorbitol, 0.65% NaCl. Added as equal volume to that of the whole infected blood. 0.2ml (approximately) aliquots placed in ampules with parasitemia of 10%. Slow freeze to -80C overnight and transfer to vapor phase N2 or flash freeze in liquid N2.

Important note: This reagent was authenticated by the contributor. Please contact malaria@atcc.org for any comment.

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: Biosafety in Microbiological and Biomedical Laboratories, 5th ed. (2007). Department of Health and Human Services, Centers for Disease Control and Prevention. The full text is available from CDC online at http://www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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In Materials and Methods "P. falciparum line Dd2 (MRA-156, MR4, ATCC® Manassas Virginia)…". In the acknowledgment portion: "We thank MR4 for providing us with malaria parasites contributed by (name of depositor)."

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