



Product Information Sheet for MRA-747

PARASITE

MR4 Number: MRA-747
Organism: *Plasmodium chabaudi chabaudi*
Clone: AS(Pyr1)
Depositor: David Walliker, University of Edinburgh.
Unit size: 0.2 ml
Propagated in: Mouse
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(Pyr1) produced in Edinburgh, first by treatment of clone AS(Sens) with pyrimethamine to produce resistant mutant, followed by cloning by dilution and inoculation into mice.

Cloner: D. Walliker

Date of Cloning: Nov. 8, 1972

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.

Comments: *P. c. chabaudi* AS(Pyr1) is resistant to pyrimethamine. Mutant selected by treatment of mice infected with AS(Sens) with 75mg/kg pyrimethamine for 4 days.

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 treatment of clone AS(Sens) with pyrimethamine to produce resistant mutant, followed by cloning by dilution and inoculation into mice.

References:

Beale GH, et al. Genetics <i>In: </i> Killick-Kendrick R, Peters W. Rodent Malaria. London: Academic Press. pp. 213-245, 1978.
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 -80°C 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/bmb15/bmb15toc.htm>.

MR4 Replacement Policy

MR4 shall replace reagent if the customer reports it was received damaged. Shipments with problems must be reported within 30 days of receipt. Frozen shipments received thawed or damaged should be reported by the customer to the airline or freight forwarder upon receipt. MR4 should be notified after a claim has been filed to arrange for another shipment.

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Citations regarding use of this material

Please remember to reference BOTH MR4 AND THE DEPOSITOR in all publications resulting from the use of this reagent.

Example of how to reference MR4 reagents:

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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