



Product Information Sheet for MRA-742

PARASITE

MR4 Number: MRA-742

Organism: *Plasmodium chabaudi chabaudi*

Clone: AS(3CQ)

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(3CQ) produced in Edinburgh by chloroquine (CQ) treatment of MRA-747 *P. c. chabaudi* clone AS(Pyr1).

Cloner: V.E. Rosario

Date of Cloning: July 8, 1974

Drug Profile: CQ: Low resistance. Viable *in vivo* following treatment with 3mg/kg chloroquine for 8 days. Mef: Sensitive. QN: Sensitive. Art: Not tested. Pyr: Resistant. Viable *in vivo* following treatment with 15 mg/kg pyrimethamine for 4 days.

Comments: AS(3CQ) is a chloroquine-resistant clone, derived by treatment of *P. c. chabaudi* clone AS(Pyr1) with low but increasing doses of chloroquine over 15 mouse passages and transmission through *Anopheles stephensi*.

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). Isolate AS passaged in mice. Clone AS(3CQ) produced in Edinburgh by chloroquine (CQ) treatment of MRA-747 *P. c. chabaudi* clone AS(Pyr1).

References:
Rosario, V.E. (1976) Genetics of chloroquine-resistance in malaria parasites. *Nature* 261, 585-586.
Padua, R.A. (1981) *Plasmodium chabaudi*: genetics of resistance to chloroquine. *Experimental Parasitology* 52, 419-426.
Carlton, J., Mackinnon, M. and Walliker, D. (1998) A chloroquine resistance locus in the rodent malaria parasite *Plasmodium chabaudi*. *Molecular and Biochemical Parasitology* 93, 57 – 72.

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/bmb15/bmb15toc.htm>.

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Citations regarding use of this material

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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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