



# Product Information Sheet for MRA-743

## PARASITE

**MR4 Number:** MRA-743

**Organism:** *Plasmodium chabaudi chabaudi*

**Clone:** AS(15MF/3)

**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(15MF/3) produced in Edinburgh by mefloquine treatment of chloroquine-resistant mutant *P. c. chabaudi* AS(15CQ).

**Cloner:** R.A. Padua

**Date of Cloning:** Oct. 26, 1978

**Drug Profile:** LD50s not known. CQ: Resistant. QN: Sensitive. MFQ: Resistant. Grows at standard treatment with mefloquine at 5 mg/kg 4 days. ART: Not tested. Pyr: Resistant. Grows at standard dose of 10 mg/kg pyrimethamine for 4 days.

**Comments:** AS(15MF/3) is a mefloquine-resistant clone, derived by treatment of chloroquine-resistant mutant AS(15CQ) with increasing doses of mefloquine over 24 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(15MF/3) produced in Edinburgh by mefloquine treatment of chloroquine-resistant mutant *P. c. chabaudi* AS(15CQ).

**References:**  
Cravo, P.V.L., Carlton, J.M.-R., Hunt, P., Bioni, L., Padua, R.A. and Walliker, D. (2003) Genetics of mefloquine resistance in the rodent malaria parasite *Plasmodium chabaudi*. *Antimicrobial Agents and Chemotherapy* 47, 709-718.  
Padua, R.A. (1981) *Plasmodium chabaudi*: genetics of resistance to chloroquine. *Experimental Parasitology* 52, 419-426.

**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](mailto: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.

### Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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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)."

### Consider Depositing to the MR4!

The generosity of other researchers made it possible for you to use this reagent. We invite you to share your reagents with the malaria community. One of the missions of MR4 is to facilitate technology transfer. MR4 will acknowledge your contribution in its publications. Contact us for more information.

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