



Product Information Sheet for MRA-754

PARASITE

MR4 Number: MRA-754
Organism: *Plasmodium yoelii yoelii* 33X
Isolate/Clone: 33X(Pr3)
Original Host: *Thamnomys rutilans* 33X
Isolate Collection Date: April 1965
Isolate Location: Central African Republic, La Maboké field station
Cloner: S. Morgan
Date of cloning: Feb 3, 1972
Depositor: David Walliker, University of Edinburgh.
Unit size: 0.2 ml
Propagated in: Mouse

History: Original isolate from thicket-rat *Thamnomys rutilans* 33X (also called 3L) by I. Landau in Central African Republic, sent to Paris, then London School of Hygiene and Tropical Medicine, then Edinburgh in January 1968. Selected for pyrimethamine-resistance after passages through mice, *Grammomys surdaster* and *Anopheles stephensi*, and subsequently cloned into mice. *P. y. yoelii* 33X(Pr3) is a pyrimethamine-resistant clone, which is also highly virulent.

Drug profiles: CQ: Resistant. Pyr: Resistant. LD50s not known. *P. y. yoelii* 33X(Pr3) mutant selected by treatment of mice with pyrimethamine at 50 mg/kg pyrimethamine for 4 days. Grows at standard dose of pyrimethamine 15mg/kg 4 days.

References:

Beale, G.H., Carter, R. and Walliker, D. (1978) Genetics. In Rodent Malaria. Eds Killick-Kendrick, R. and Peters, W. Academic Press pp. 213-245
Walliker, D. (1981) The genetics of virulence in *Plasmodium yoelii*. In *Parasitological Topics*. Society of Protozoologists, Special Publications No. 1. pp. 260-265
Walliker, D. (1982) Genetic variation in malaria parasites. *British Medical Bulletin*, 38, 123-128
Carter, R (1972) Effect of PABA on chloroquine-resistance in *Plasmodium berghei*. *Nature* 238 98-99

Amplification: Cryopreserved material should be injected in mice via the i.p. route. To maintain the strain in vivo, passage infected blood from donor mice 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 parasitama of 10%. Frozen rapidly in liquid nitrogen.

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

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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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