



Product Information Sheet for MRA-917

INSECT CELL LINE

MR4 Number: MRA-917

Product Name: 4a-2

Unit Size: 0.5ml /vial

Concentration: 5×10^6 total cells (0.5 ml)

Cell type/ Tissue: Neonate larvae

Source of Cell: *Anopheles gambiae*

Host strain / line: 4a r/r

Special properties: Adherent monolayer.

Quality Control Methods: Lot tested for viability using trypan blue cell enumeration. Lot tested negative for mycoplasma.

Storage condition: LN2

Depositor: George K. Christophodes, Imperial College, London.

References:

Müller HM, Dimopoulos G, Blass C, Kafatos FC. A hematocyte – like cell line established from malaria vector *Anopheles gambiae* express six propherdoxides genes. *J Biol Chem.* 1999 Apr 23; 274(17):11727-35. PubMed: 10206988

Dimopoulos G, Christophides GK, Meister S, Schultz J, White KP, Barillas-Mury C, Kafatos FC. *Proc Natl Acad Sci U S A.* 2002 Jun 25;99(13):8814-9. Epub 2002 Jun 19.

Flaminia Catteruccia, Tony Nolan, Claudia Blass, Hans-Michael Muller, Andrea Crisanti, Fortis C. Kafatos and Thanasis G. Loukeris. Towards *Anopheles* transformation: Minos element activity in anopheline cells and embryos. *PNAS*, 97 (5): 2157-2162, 2000 Pubmed: 10681436

Recommended Culture Medium:

Schneiders Insect Medium supplemented with 10% inactivated Fetal Bovine Serum (facultative: 100 U/ml Penicillin and 100 ug/ml Streptomycin. Growth temperature at 27°C-28°C, sealed flask. No CO2 required.

Subcultivation Procedure:

Thaw 1 vial in 37°C water bath, transfer the contents into a 75cm flask with 18 ml of culture medium. Keep the flask with tight cap in 25°C incubator. Change media at 12-16 hours post seeding. Feed cells at least every 48 hrs, harvest at 80-90% confluency and reseed at 1:3 to 1:5 ratio as needed.

Passage: When cells near confluency, passage up to 1:5 by harvesting with cell scraper/rubber policeman or by mechanical disruption/vigorous shaking of flask. Collect and gently aspirate

several times with pipette to disrupt attached/clumped cells prior to cell counting when required.

Freezing Medium: Schneiders Insect Medium + 10% FBS + 10% DMSO.

Freezing Procedure:

Harvest and count cells using neubauer chamber/hemocytometer; resuspend cells to 10^7 /ml in Freezing medium and aliquot into cryo tubes suitable for liquid nitrogen storage. Slow freeze to -80C in appropriate chamber up to 24 hours, transfer to liquid nitrogen tank.

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, 4th ed. HHS Publication No. (CDC) 93-8395. U.S. Department of Health and Human Services, Centers for Disease Control and Prevention. Washington DC: U.S. Government Printing Office; 1999. The text is available online at www.cdc.gov/od/ohs/biosfty/bmb14/bmb14toc.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

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Manassas, VA 20110-2209

Ordering info: 800-638-6597 (USA and Canada)
703-365-2765 (elsewhere); Fax: 703-365-2774;
e-mail: malaria@atcc.org; web site: www.malaria.mr4.org



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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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