Product Information Sheet for MRA-858

INSECT CELL LINE

MR4 Number: MRA-858

Product Name: MSQ43

Unit Size: 0.5ml

Concentration: 10^7 ml^{-1} ($5x10^6$ total cells)

Source of Cell: *Anopheles stephensi* Indian wild type

Cell Lines: Immmortalized: Y

Quality Control: Cells tested negative for mycoplasma

Storage condition: Liquid N_2

Biosafety level: 1

Shipped: Frozen

Depositor: S. Luckhart < I. Schneider (WRAIR)

Propagation: Culture System: T-25 flask

Growth Mode: adherent

Protocol: MEM-E5 medium; 5% CO2 required; harvest with cell scrapper; split 1:3 to 1:5 when confluent; slow doubling time may be experienced in suboptimal conditions (72h), investigator reports 20 hr doubling time; cells grow best when seeded and maintained at high density (split at near confluence, reseed at ~30% confluence).

Media:

MEM – E5 (Minimum Essential Medium enhanced, 5% FBS)
Used for mosquito cell lines including MRA-858 (A. stephensi MSQ43) and Aedes albopictus C7-10 cells.

MEM with Earl's salts	440.0 ml
200mM L-glutamine (to 4mM)	10.0 ml
Sterile 10% glucose	5.0 ml
100x Vitamin solution	5.0 ml
NEAA (non-essential amino acids)	10.0 ml
100x Penicillin/Streptomycin	5.0 ml
Heat Inactivated FBS (to 5%)	25.0 ml

Mix and filter sterilize

Other MEM with Earl's base formulations containing L-glu may be adjusted accordingly to 4mM L-glu.

Incubation: 28.0°C and 5% CO_2 atmosphere required, T25 or larger filter capped or loose-capped flask.

Passage: Cells are adherent but may be detached and passaged by vigorous pippeting or cell scraping with a cell harvester/rubber policeman. Trypsin treatment not required and not desireable. If chemical disruption is preferred, trypsin substitutes may be less damaging to cells.

References:

For MSQ43 cell line:
Schneider, Imogene. Establishment of three diploid cell lines of Anopheles stephensi (Diptera: Culicidae). J. Cell Biol. 42: 603-606, 1969.

For MEM E-5 media:
Shih, KM, Gerenday, A and Fallon, AM. 1998. Culture of mosquito cells in Eagle's medium. In Vitro Cell and Developmental Biology Animal 34: 629-630.

Anna Gerenday, Ann M. Fallon. 2004. Ecdysone-induced accumulation of mosquito cells in the G1 phase of the cell cycle Journal of Insect Physiology 50:831-838.

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/bmbl4/bmbl4toc.htm.

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

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