

Anopheles gambiae, Strain KISUMU, Bulk Frozen

Catalog No. MRA-762B

For research use only. Not for human use.

Contributor:

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Manufacturer:

Centers for Disease Control and Prevention (CDC), Atlanta, Georgia, USA

Product Description:

Classification: Culicidae, *Anopheles*

Species: *Anopheles gambiae* (African malaria mosquito)

Strain: KISUMU (also referred to as KISUMU1)

Original Source: The *Anopheles gambiae* (*An. gambiae*), strain KISUMU colony was established by Dr. G. Davidson in 1975 in Kisumu, Kenya.¹

Comments: *An. gambiae*, strain KISUMU was selected for permethrin susceptibility, deposited as the S molecular form and is considered the insecticide-susceptible reference standard of *An. gambiae*.^{1,2}

Applications: MRA-762B is suitable for DNA and RNA isolation, protein extraction, etc.

Material Provided:

Each tube of MRA-762B contains at least 100 adult male and female wild-type *An. gambiae*, strain KISUMU mosquitoes preserved in liquid nitrogen (quick frozen).³

Packaging/Storage:

MRA-762B is prepared and shipped by CDC. The product is provided frozen and should be stored at -80°C or colder immediately upon arrival.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Anopheles gambiae*, Strain KISUMU, Bulk Frozen, MRA-762B, contributed by Vincent Corbel."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. Corbel, V., Personal Communication.
2. Etang, J., et. al. "When Intensity of Deltamethrin Resistance in *Anopheles gambiae* s.l. Leads to Loss of Long Lasting Insecticidal Nets Bio-Efficacy: A Case Study in North Cameroon." Parasit. Vectors 9 (2016): 132. PubMed: 26951758.
3. For details on authentication methods used to confirm the identity of this KISUMU stock, please refer to: https://www.beiresources.org/portals/2/MR4/Pdfs/Anophiles/KISUMU1_Stock_Auth_Sheet.pdf.
4. Reid, J. A. "Pupal Differences between Species A and B of the *Anopheles gambiae* Group from Kisumu, East Africa." Mosq. Syst. 7 (1975): 1-7.
5. Kadri, A. B. H. "Cross-Resistance to an Insect Juvenile Hormone Analogue in a Species of the *Anopheles gambiae* Complex Resistant to Insecticides." J. Med. Entomol. 12 (1975): 10-12. PubMed: 1159721.
6. Diabate, A., et al. "KDR Mutation, a Genetic Marker to Assess Events of Introgression between the Molecular M and S Forms of *Anopheles gambiae* (Diptera: Culicidae) in the Tropical Savannah Area of West Africa." J. Med. Entomol. 40 (2003): 195-198. PubMed: 12693848.

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