

***Anopheles gambiae*, Strain G3, Frozen Kit
(10 Male and 10 Female)**

Catalog No. MRA-132K

For research use only. Not for human use.

Contributor and Manufacturer:

Mark Q. Benedict, Ph.D., Research Biologist, Entomology Branch, Division of Parasitic Diseases, National Center for Infectious Diseases (NCID), Centers for Disease Control and Prevention (CDC), Atlanta, Georgia, USA

Product Description:

Classification: *Diptera, Culicidae, Anopheles*

Species: *Anopheles gambiae*

Strain: G3

Original Source: *Anopheles gambiae* (*A. gambiae*), strain G3 was isolated in 1975 in the Gambia.¹

Comment: *A. gambiae*, strain G3 was generously donated to CDC by William E. Collins.

Applications: MRA-132K is suitable for DNA and RNA isolation, protein extraction, etc.

A. gambiae, strain G3 is a mongrel stock that has not been exhaustively defined and has no authentication standards that definitively distinguish it from several other 'wild' *A. gambiae* stocks. It is distributed 'as is' with accompanying authentication information. Its general good vigor and 'wild', but polymorphic, nature are its chief virtues.

A. gambiae G3 stock was identified to species according to morphologic criteria, including wild type eye color and polymorphic collarless. A sample of 100 individuals was 100% susceptible to dieldrin when treated at 1 ppm for 1 hour in the fourth stage. When the ribosomal DNA IGS region was amplified by PCR with the rDNA 28S 'universal' primer (GTGTGCCCTTCCTCGATGT) and an equimolar combination of *A. gambiae*- and *A. arabiensis*-specific primers (CTGGTTTGGTCCGACGTTT and AAGTGTCTTCTCCATCCTA, respectively), a 390-bp fragment resulted as determined by agarose gel electrophoresis.²

The most recent morphological authentication was performed on the F65 generation of *A. gambiae*, strain G3. The most recent G3 molecular authentication was performed on the F69 generation of *A. gambiae*, strain G3.

Material Provided:

Each kit of MRA-132K contains 10 adult male and 10 adult female wild-type *A. gambiae*, strain G3 mosquitoes, which were preserved in liquid nitrogen (quick-frozen) while alive. MRA-132K lot 3321589 is generation F63 of *A. gambiae*, strain G3.

Packaging/Storage:

MRA-132K is prepared and shipped from CDC, Atlanta, GA USA. 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 G3, Frozen Kit (10 Male and 10 Female), MRA-132K, contributed by Mark Q. Benedict."

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. Collins, W. E., Personal Communication.
2. Scott, J. A., W. G. Brogdon and F. H. Collins. "Identification of Single Specimens of the *Anopheles gambiae* Complex by the Polymerase Chain Reaction." Am. J. Trop. Med. Hyg. 49 (1993): 520-529. PubMed: 8214283.

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