

***Aedes aegypti*, Strain LVP-IB12, Frozen Kit
(10 Male and 10 Female)**

Catalog No. MRA-735K

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, *Aedes*

Species: *Aedes aegypti* (yellow fever mosquito)

Strain: LVP-IB12 (also referred to as Liverpool-IB12)

Original Source: The *Aedes aegypti* (*Ae. aegypti*), strain LVP-IB12 is an inbred substrain of *Ae. aegypti*, strain Liverpool, which is tolerant to inbreeding while maintaining relevant phenotypes.¹ Strain LVP-IB12 was selected from a Liverpool strain by 12 consecutive generations of isofemale line selection and inbreeding.²

Comments: The parent Liverpool strain is susceptible to filaroid parasitic nematodes.¹ However, *Ae. aegypti*, strain LVP-IB12 has been reported refractory to *Dirofilaria immitis* and *Brugia malayi* infection.³ It is fixed for a majority of loci across the entire genome.² The complete genome of *Ae. aegypti*, strain Liverpool has been sequenced (GenBank: [AAGE00000000](https://www.ncbi.nlm.nih.gov/nuccore/AAGE00000000)) and based on use of the LVP-IB12 strain.¹

Applications: Suitable for DNA and RNA isolation, protein extraction, etc.

Material Provided:

Each kit of MRA-735K contains 10 adult male and 10 adult female wild-type *Ae. aegypti*, strain LVP-IB12 mosquitoes preserved in liquid nitrogen (quick-frozen).

Packaging/Storage:

MRA-735K 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: *Aedes aegypti*, Strain LVP-IB12, Frozen Kit (10 Male and 10 Female), MRA-735K, contributed by David W. Severson.”

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/bmb15/index.htm.

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References:

1. Nene, V., et al. “Genome Sequence of *Aedes aegypti*, a Major Arbovirus Vector.” *Science* 316 (2007): 1718-1723. PubMed: 17510324.
2. Severson, D. W., Personal Communication.
3. Juneja, P., et al. “Assembly of the Genome of the Disease Vector *Aedes aegypti* onto a Genetic Linkage Map Allows Mapping of Genes Affecting Disease Transmission.” *PLoS Negl. Trop. Dis.* 8 (2014): e2652. PubMed: 24498447.

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