

## *Aedes aegypti*, Strain LVP-IB12, Eggs

Catalog No. MRA-735

**For research use only. Not for human use.**

### Contributor:

David W. Severson, Ph.D., Professor, Mosquito Genetics and Genomics, Department of Biological Sciences, University of Notre Dame, Notre Dame, Indiana, USA

### 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.<sup>1</sup> Strain LVP-IB12 was selected from a Liverpool strain by 12 consecutive generations of isofemale line selection and inbreeding.<sup>2</sup>

Comments: The parent Liverpool strain is susceptible to filaroid parasitic nematodes.<sup>1</sup> However, *Ae. aegypti*, strain LVP-IB12 has been reported refractory to *Dirofilaria immitis* and *Brugia malayi* infection.<sup>3</sup> It is fixed for a majority of loci across the entire genome.<sup>2</sup> 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.<sup>1</sup>

### Material Provided:

MRA-735 contains a suitable number of eggs to establish a stock. Eggs are provided on damp filter paper and should be hatched immediately upon receipt.

### Packaging/Storage:

MRA-735 is prepared and shipped by CDC. The product is provided at room temperature.

### Growth Conditions:

Standard *Ae. aegypti* rearing procedures are recommended.<sup>2</sup>

### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Aedes aegypti*, Strain LVP-IB12, Eggs, MRA-735, 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/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/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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