

***Culex quinquefasciatus*, Strain JHB, Eggs**

Catalog No. NR-43025

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*, *Culex*

Species: *Culex quinquefasciatus* (common name: southern house mosquito)

Strain: JHB

Original Source: *Culex quinquefasciatus* (*C. quinquefasciatus*) strain JHB, eggs were isolated in 2000 in Johannesburg, South Africa. The colony was established from offspring derived from 12 egg rafts collected at a pond north of Johannesburg, coordinates 26° 66'S 27° 50'E.¹

Transmission Competent Pathogens: St. Louis encephalitis virus (SLEV), West Nile virus (WNV), Rift Valley Fever virus (RVFV), *Wuchereria bancrofti* (nematode, agent of lymphatic filariasis)

Comment: The whole genome shotgun sequence of *C. quinquefasciatus* is available (GenBank: [AAWU00000000](https://www.ncbi.nlm.nih.gov/nuccore/AAWU00000000)).

Material Provided:

NR-43025 contains a suitable number of live eggs to establish a stock. Eggs are provided on damp filter paper and should be hatched immediately upon receipt.

Packaging/Storage:

NR-43025 is prepared and shipped by CDC. The product is provided at room temperature.

Growth Conditions¹:

C. quinquefasciatus, strain JHB mosquitoes should be maintained with unlimited access to 10% sucrose solution in a 1.0 ft³ cage at 25-27°C and 70-80% humidity under a 12-hour light:12-hour dark cycle, with 0.5-hour simulated dusk and dawn to enhance mating. Larvae should be reared in aerated trays and fed ground fish food. Adults can blood feed on live mammals or heparinized blood in a Hemotek feeder.

Citation:

Acknowledgment for publications should read "The following reagent was provided by Centers for Disease Control and Prevention for distribution by BEI Resources, NIAID, NIH: *Culex quinquefasciatus*, Strain JHB, Eggs, NR-43025."

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. Cornel, A. J., Personal Communication.
2. Cornel, A. J., et al. "Differences in Extent of Genetic Introgression Between Sympatric *Culex pipiens* and *Culex quinquefasciatus* (Diptera: Culicidae) in California and South Africa." J. Med. Entomol. 40 (2003): 36-51. PubMed: 12597651.

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