

Haemaphysalis longicornis Nymph

Catalog No. NR-51848

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For research use only. Not for use in humans.

Contributor:

Michael L. Levin, Ph.D., Medical Entomology Lab Director, Rickettsial Zoonoses Branch, Centers for Disease Control and Prevention (CDC), Atlanta, Georgia, USA

Manufacturer:

CDC, Atlanta, Georgia, USA

Product Description:

Classification: *Ixodidae*, *Haemaphysalis*

Species: *Haemaphysalis longicornis* (common name: Asian longhorned tick, longhorned tick, bush tick, cattle tick)

Original Source: *Haemaphysalis longicornis* (*H. longicornis*) colony was established from a parthenogenic strain of ticks flagged from vegetation in 2018 in Yonkers, New York, USA.¹

Transmission Competent Pathogens: *H. longicornis* is an arthropod vector competent for transmitting the following pathogens: *Anaplasma bovis*, *Borrelia* sp., *Ehrlichia chaffeensis*, Powassan virus, severe fever with thrombocytopenia syndrome, spotted fever group *Rickettsia* sp., *Theileria annulata* and tick-borne encephalitis virus.¹

Comments: The mitochondrial genome of a representative *H. longicornis* colony has been sequenced (GenBank: [NC_037493](https://www.ncbi.nlm.nih.gov/nuclseq/NC_037493)).²

Material Provided:

NR-51848 contains a live, wild-type *H. longicornis* nymph.

Note: *H. longicornis* can also be obtained in adult (NR-51846) or larval stages (NR-51847).

Packaging/Storage:

NR-51848 is prepared and shipped by the CDC. The product is provided at room temperature and should be placed in an incubator or used immediately.³

Growth Conditions:

All *H. longicornis* life stages are fed on New Zealand White rabbits. The contributor recommends standardized laboratory conditions for the maintenance of ticks.³

Citation:

Acknowledgment for publications should read "The following reagent was deposited by the Centers for Disease Control and Prevention and obtained through BEI Resources, NIAID, NIH: *Haemaphysalis longicornis* Nymph, NR-51848."

Biosafety Level: 2

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmb15/index.htm.

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References:

1. Levin, M. L., Personal Communication.
2. Geng, J., et al. "The Complete Mitochondrial Genome and Phylogenetic Analysis of *Haemaphysalis longicornis* Neumann (Acari: Ixodidae)." Mitochondrial DNA B Resour. 2 (2017): 856-857.
3. Levin, M. L. and L. B. Schumacher. "Manual for Maintenance of Multi-Host Ixodid Ticks in the Laboratory." Exp. Appl. Acarol. 70 (2016): 343-367. PubMed: 27651325.

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