

Haemaphysalis longicornis Nymph

Catalog No. NR-51848

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Contributor:

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Manufacturer:

Centers for Disease Control and Prevention, 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

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

Material Provided:

NR-51848 contains a live, wild-type *H. longicornis* nymph. Registrants may order up to 500 nymphs in a given month.

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 CDC. The product is provided at room temperature and should be placed in a humidified environmental incubator or used immediately.³

Growth Conditions:

All 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 provided by Centers for Disease Control and Prevention for distribution by 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. 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. 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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