

Product Information Sheet for NR-51846

Adult Haemaphysalis longicornis

Catalog No. NR-51846

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For research use only. Not for use in humans.

Contributor:

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Manufacturer:

CDC, Atlanta, Georgia, USA

Product Description:

Classification: Ixodidae, Haemaphysalis

<u>Species</u>: *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

<u>Transmission Competent Pathogens</u>: *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

<u>Comments</u>: The mitochondrial genome of a representative H. longicornis colony has been sequenced (GenBank: NC 037493).²

Material Provided:

NR-51846 contains a live wild-type H. longicornis adult tick.

Note: H. longicornis can also be obtained in larval (NR-51847) or nymph stages (NR-51848).

Packaging/Storage:

NR-51846 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: Adult *Haemaphysalis longicornis*, NR-51846."

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. <u>Biosafety in Microbiological and Biomedical Laboratories</u>. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

- 1. Levin, M. L., Personal Communication.
- 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.
- Levin, M. L. and L. B. Schumacher. "Manual for Maintenance of Multi-Host Ixodid Ticks in the Laboratory." <u>Exp. Appl. Acarol.</u> 70 (2016): 343-367. PubMed: 27651325.

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