

Product Information Sheet for NR-44117

Ixodes ricinus Larvae

Catalog No. NR-44117

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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, Ixodes

Species: Ixodes ricinus (common name: castor bean tick or

sheep tick

Original Source: Ixodes ricinus (I. ricinus) ticks were flagged from vegetation in 2009 in Paris, France, and contributed to CDC by Sarah Bonnet.

<u>Transmission Competent Pathogens:</u> Anaplasma phagocytophilum, Babesia spp., Borrelia burgdorferi, tickborne encephalitis virus

<u>Comment</u>: The whole genome shotgun sequence of a representative *I. ricinus* colony is available (GenBank: JXMZ00000000).¹

Material Provided:

NR-44117 contains a live, wild-type *I. ricinus* larval batch.

Note: *I. scapularis* can also be obtained in adult (NR-42511) or nymph forms (NR-44118).

Packaging/Storage:

NR-44117 is prepared and shipped by CDC. The product is provided at room temperature and should be placed in an incubator or used immediately.

Growth Conditions:

All life stages are fed on New Zealand White rabbits. The contributor recommends standardized laboratory conditions for the maintenance of ticks.²

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: *Ixodes ricinus* Larvae, NR-44117."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

- Cramaro, W. J., et al. "Integration of Ixodes ricinus Genome Sequencing with Transcriptome and Proteome Annotation of the Naïve Midgut." <u>BMC Genomics</u> 16 (2015): 871. PubMed: 26510422.
- Troughton, D. R. and M. L. Levin. "Life Cycles of Seven Ixodid Tick Species (Acari: *Ixodidae*) Under Standardized Laboratory Conditions." <u>J. Med. Entomol.</u> 44 (2007): 732-740. PubMed: 17915502.

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