

***Ixodes ricinus* Larvae (Live)**

**Catalog No. NR-44117**

**For research use only. Not for human use.**

**Contributor:**

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**Manufacturer:**

Centers for Disease Control and Prevention, 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.

Comment: The whole genome shotgun sequence of a representative *I. ricinus* colony is available (GenBank: [JXMZ000000000](https://www.ncbi.nlm.nih.gov/nuccore/JXMZ000000000)).<sup>1</sup>

*I. ricinus* is an arthropod vector competent of transmitting the following pathogens: *Anaplasma phagocytophilum*, *Babesia* spp., *Borrelia burgdorferi*, and tick-borne encephalitis virus.

**Material Provided:**

NR-44117 contains a live wild-type *I. ricinus* larval batch. Registrants may order up to 10 larval batches in a given month. Note: *I. ricinus* 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.<sup>2</sup>

**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 (Live), 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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

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

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