

***Amblyomma americanum* Nymph**

Catalog No. NR-44124

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Contributor:

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Manufacturer:

Centers for Disease Control and Prevention, Atlanta, GA, USA

Product Description:

Classification: Ixodidae, *Amblyomma*

Species: *Amblyomma americanum* (common name: lone star tick)

Original Source: *Amblyomma americanum* (*A. americanum*) colony was established from adult ticks collected from vegetation in 2003 in Georgia, USA.¹

Transmission Competent Pathogens: *A. americanum* is an arthropod vector competent for transmitting the following pathogens: *Ehrlichia chaffeensis*, *Ehrlichia ewingii* and Panola Mountain ehrlichial agent.¹

Comments: This *A. americanum* colony may contain endosymbiotic *Coxiella* sp..¹ The mitochondrial genome of a representative *A. americanum* colony has been sequenced (GenBank: [NC 027609](#)).²

Material Provided:

NR-44124 contains a live, wild-type *A. americanum* nymph. Registrants may order up to 500 nymphs in a given month. Note: *A. americanum* can also be obtained in adult (NR-42514) or larval stages (NR-44123).

Packaging/Storage:

NR-44124 is prepared and shipped by CDC. The product is provided at room temperature and should be placed in a humidified environmental incubator³ 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.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: *Amblyomma americanum* Nymph, NR-44124."

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.

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References:

1. Levin, M. L., Personal Communication.
2. Williams-Newkirk, A. J., et al. "The Mitochondrial Genome of the Lone Star Tick (*Amblyomma americanum*)."
Ticks Tick Borne Dis. 6 (2015): 793-801. PubMed: 26189992.
3. 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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