

Product Information Sheet for NR-44124

Amblyomma americanum Nymph

Catalog No. NR-44124

This reagent is the tangible property of the U.S. Government.

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

CDC, Atlanta, Georgia, 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

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

<u>Comments</u>: 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.

<u>Note</u>: *A. americanum* can also be obtained in adult (NR-42514) or larval stages (NR-44123).

Packaging/Storage:

NR-44124 is prepared and shipped by the CDC. The product is provided at room temperature and should be placed in a humidified environmental incubator or used immediately.³

Growth Conditions:

All *A. americanum* 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: *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. <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.
- Williams-Newkirk, A. J., et al. "The Mitochondrial Genome of the Lone Star Tick (Amblyomma americanum)." <u>Ticks</u> <u>Tick Borne Dis.</u> 6 (2015): 793-801. PubMed: 26189992.
- 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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