Total RNA from *Brugia malayi*, Strain FR3, Stage L3

**Catalog No. NR-42495**
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**For research use only. Not for human use.**

**Contributor:**
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**Manufacturer:**
Filariaasis Research Reagent Resource Center supported by Contract HHSN272201000030I, NIH-NIAID Animal Models of Infectious Disease Program

**Product Description:**
NR-42495 is a preparation of total RNA extracted from *Brugia malayi* (*B. malayi*), strain FR3, third stage larvae (L3). *B. malayi*, strain FR3 was originally obtained from researchers in Malaysia by Dr. John Schacher.1,2

*B. malayi* is a mosquito-borne filarial nematode worm that causes lymphatic filariasis.3 Mosquitoes deposit infective third stage larvae (L3) on human skin. The larvae then penetrate and migrate to the lymphatic vessels where they develop into adult worms over several months. Development includes molting transitions into fourth stage larvae (L4) and fifth stage larvae (L5) to reach maturation. The mature female worms release large numbers of microfilariae into the host bloodstream. The microfilariae are ingested by a mosquito during a blood meal and penetrate the midgut and develop over a period of 10 to 14 days to L3. L3 are developmentally arrested in the mosquito. The process repeats when the mosquito’s proboscis penetrates human skin.4

**Material Provided:**
Each vial of NR-42495 contains 0.5 µg to 2.0 µg of DNase-treated RNA in TE buffer (1 mM Tris-HCl, 0.1 mM EDTA, pH ~8.0). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

**Packaging/Storage:**
NR-42495 was packaged in RNase/DNase-free plastic vials. The product is provided frozen and should be stored at -80°C or colder upon arrival. Freeze-thaw cycles should be minimized.

**Citation:**
Acknowledgment for publications should read “The following reagent was provided by the NIH/NIAID Filariasis Research Reagent Resource Center for distribution through BEI Resources, NIAID, NIH: Total RNA from *Brugia malayi*, Strain FR3, Stage L3, NR-42495.”

**Biosafety Level:** 1

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**References:**
4. Li, B. W., et al. "Transcription Profiling Reveals Stage- 
and Function-Dependent Expression Patterns in the 
Filarial Nematode *Brugia malayi.*" *BMC Genomics* 13 

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