Total RNA from Adult Female *Brugia pahangi*, Strain FR3

Catalog No. NR-48665

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

For research use only. Not for human use.

Contributor:
Steven A. Williams, Director of Filariasis Research Reagent Resource Center and Gates Professor, Department of Biological Science, Smith College, Northampton, Massachusetts, USA

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

Product Description:
NR-48665 is a preparation of total RNA extracted from adult female *Brugia pahangi* (B. pahangi), strain FR3. *B. pahangi*, strain FR3 was originally obtained from researchers in Malaysia by Dr. John Schacher.1,2

*B. pahangi* is a thread-like filarial nematode with a life cycle consisting of a mosquito intermediate host and a wide variety of carnivorous definitive hosts including human and felines.1,3 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 juvenile adults 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 L3.4,5 L3 are developmentally arrested in the mosquito. The process repeats when the mosquito’s proboscis penetrates the definitive host’s skin.4

Material Provided:
Each vial of NR-48665 contains 0.5 μg to 2.0 μg of RNA in TE buffer (1 mM Tris-HCl, 0.1 mM EDTA, pH ~ 8). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:
NR-48665 was packaged in 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 by BEI Resources, NIAID, NIH: Total RNA from Adult Female *Brugia pahangi*, Strain FR3, NR-48665.”

Biosafety Level: 1


Disclaimers:
You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:
This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

ATCC® is a trademark of the American Type Culture Collection.