

Product Information Sheet for NR-50277

SUPPORTING INFECTIOUS DISEASE RESEARCH

Total RNA from Adult *Culex* quinquefasciatus, Strain JHB

Catalog No. NR-50277

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

For research use only. Not for human use.

Contributor:

Steven A. Williams, Ph.D., 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-50277 is a preparation of total RNA extracted from adult stage Culex quinquefasciatus (C. quinquefasciatus), strain JHB. RNA was extracted using a modified TRIzol (Invitrogen $^{\text{TM}}$) protocol developed by the Williams Lab at Smith College.

C. quinquefasciatus mosquitos are transmission vectors for filarial nematodes that cause human lymphatic filariasis. Microfilariae (MF) are ingested by mosquitos during a blood meal. On maturity most of the infective third stage larvae (L3) migrate to the head and proboscis of the mosquito and are subsequently transmitted to a mammalian host. They develop to juvenile adults in the mammalian host and produce MF of their own to repeat the life cycle. ²

Material Provided:

Each vial of NR-50277 contains 0.5 μg to 2.0 μg of RNA in TE buffer. The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-50277 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 *Culex quinquefasciatus*, Strain JHB, NR-50277."

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>. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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:

- Simonsen, P. E. and M. E. Mwakitalu. "Urban Lymphatic Filariasis." <u>Parasitol. Res.</u> 112 (2013): 35-44. PubMed: 23239094.
- Paily, K. P., S. L. Hoti and P. K. Das. "A Review of the Complexity of Biology of Lymphatic Filarial Parasites." J. Parasit. Dis. 33 (2009): 3-12. PubMed: 23129882.

 ATCC^{\otimes} is a trademark of the American Type Culture Collection.

NAMO / NH Filariasis Research Reagent Resource Center (FR3) Support Provided by NIAID

BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898