

Product Information Sheet for NR-50278

SUPPORTING INFECTIOUS DISEASE RESEARCH

Total RNA from *Culex quinquefasciatus*, Strain JHB, Pupae

Catalog No. NR-50278

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

For research use only. Not for human use.

Contributor:

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Manufacturer:

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

Product Description:

NR-50278 is a preparation of total RNA extracted from pupal stage Culex quinquefasciatus (C. quinquefasciatus), strain JHB. RNA was extracted using a modified TRIzol (InvitrogenTM) 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-50278 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-50278 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 *Culex quinquefasciatus*, Strain JHB, Pupae, NR-50278."

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:

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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.

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