Genomic DNA from Adult Female *Acanthocheilonema viteae*, Strain FR3

Catalog No. NR-44347

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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-44347 is a preparation of genomic DNA extracted from adult female *Acanthocheilonema viteae* (A. viteae), strain FR3.

*A. viteae* (formerly *Dipetalonema viteae*), is a filarial nematode with a life cycle consisting of a soft tick (Argasidae) intermediate host and a rodent definitive host. Infective third-stage larvae are transmitted from a soft tick host to the subcutaneous tissue of a rodent during a blood meal. Filariasis develops within 2-3 months as larvae transition to adult worms and release large numbers of microfilariae in the rodent host bloodstream. The life-cycle is complete when microfilariae are taken up during subsequent blood meals by a soft tick and develop into infective third-stage larvae.

*A. viteae* lacks the *Wolbachia* bacterial endosymbiont, which is found in most human-infective filarial nematodes. *Wolbachia* bacteria have been shown to influence host reproductive systems to improve parasitic advantage.

Material Provided:
Each vial of NR-44347 contains approximately 0.25 µg of genomic DNA 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-44347 was packaged in plastic vials. The product is provided frozen and should be stored at -20°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: Genomic DNA from Adult Female *Acanthocheilonema viteae*, Strain FR3, NR-44347.”

Biosafety Level: 1


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References:
2. Pogonka, T. et al. “Acanthocheilonema viteae:


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