Acanthocheilonema vitæae Microfilariae, Harvested from Culture Fluid (Frozen)

Catalog No. NR-49228
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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:
Classification: Onchocercidae, Acanthocheilonema
Species: Acanthocheilonema vitæae (previously referred to as Dipetalonema vitæae)
Original Source: Acanthocheilonema vitæae (A. vitæae) was obtained from TRS Laboratories in Athens, Georgia, USA.2
Comment: A. vitæae does not contain the Wolbachia endosymbiont like most filarial nematodes that cause human disease. A. vitæae is often used as the negative control for experiments investigating the bacterium.2

A. vitæae is a filarial nematode that parasitizes rodents in Eastern Europe, Iran and North Africa. Natural hosts of A. vitæae include the Libyan gerbil (Meriones libycus) and some species of the Jaculus and Rhombomys rodent genera. A. vitæae can also infect experimental hosts including Golden Syrian LVG hamsters (Mesocricetus auratus), Mongolian gerbils (Meriones unguiculatus) and rats (Mastomys natalensis). In nature, third-stage infective larvae (L3) of A. vitæae are transmitted to their mammalian host by the soft tick Ornithodoros tartakovskyi. Ornithodoros moubata can be used as an experimental vector for A. vitæae in the lab. Once inside the mammalian host, the L3 develop into adult worms and generate microfilariae, which are ingested by the tick during its bloodmeal. The microfilariae develop inside the vector to L3, before migrating to the arthropod mouth parts for transmission to the mammalian host when the arthropod feeds.2-5

Material Provided:
NR-49228 consists of up to 1 million frozen microfilariae harvested from culture fluid containing adult female A. vitæae. If more material is required for your intended use, please contact BEI Customer Services at contact@beiresources.org to request the additional material.

Packaging/Storage:
NR-49228 is packaged in 1.5 mL centrifuge tubes. The product is provided on dry ice and should be stored at -20°C or colder immediately upon arrival.

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, NIH: Acanthocheilonema vitæae Microfilariae, Harvested from Culture Fluid (Frozen), NR-49228.”

Biosafety Level: 1

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References:

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