

***Schistosoma mansoni*, Strain NMRI, Frozen Eggs**

Catalog No. NR-59774

For research use only. Not for use in humans.

Contributor and Manufacturer:

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Product Description:

Flatworm Classification: *Schistosomatidae*, *Schistosoma*

Species: *Schistosoma mansoni*

Strain: NMRI

Host: *Mus musculus* (mouse)

Original Source: *Schistosoma mansoni* (*S. mansoni*), strain NMRI, was isolated in the 1940s from *S. mansoni* eggs obtained from infected school children in Puerto Rico.¹

Comments: Strain NMRI was brought to the Naval Medical Research Institute (NMRI) in 1945, where it was maintained until 1971, at which time it was transferred to the Biomedical Research Institute.²

S. mansoni is a species of trematode worm which causes the chronic parasitic disease Schistosomiasis. Worldwide, more than 200 million people are infected and nearly 700 million are at risk, primarily in areas with poor sanitation that lack access to safe drinking water.³

Infection occurs through contact with larval-stage schistosomes (cercariae) that are released by freshwater snails. Upon exposure to infested water, these larvae penetrate human skin and travel through blood vessels to the liver where they mature and deposit eggs. Some of these eggs are then passed through human feces into water to re-infect the snail host and continue the parasite's life cycle. Schistosome eggs that remain in the human body cause an immune response and damage to internal organs.³

Material Provided:

NR-59774 consists of a single 15mL conical tube holding ≥100,000 eggs of *S. mansoni*, strain NMRI isolated from the livers of mice exposed to *S. mansoni* cercariae.

Packaging/Storage:

15 mL conical tubes are provided frozen and are shipped on dry ice in an insulated shipper. Tubes should be stored at -60°C or colder immediately upon arrival.

Citation:

Acknowledgment for publications should read "The following reagent was provided by the Schistosomiasis Resource Center of the Biomedical Research Institute through NIH-NIAID Contract HHSN272201700014I for distribution

through BEI Resources, NIAID, NIH: *Schistosoma mansoni*, Strain NMRI, Frozen Eggs, NR-59774."

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. [Biosafety in Microbiological and Biomedical Laboratories \(BMBL\)](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:

1. Lewis, F.A. Personal Communication.
2. Lewis, F. A., et. al. "Large-Scale Laboratory Maintenance of *Schistosoma mansoni*, with Observations on Three Schistosome/Snail Host Combinations." J. Parasitol. 72 (1986): 813-829. PubMed: 3546654.
3. Carvalho E. M. and A. A. M. Lima. "Schistosomiasis (Bilharziasis)." In: Goldman L, Ausiello D, eds. Cecil Medicine. 23rd ed. Philadelphia, Pa: Saunders Elsevier; 2007: Chap 376.

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