

***Mycobacterium leprae* Deacylated Phenolic Glycolipid-I (PGL-I) and Fatty Acids from PGL-I**

**Catalog No. NR-19343**

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**Contributor and Manufacturer:**

NIH – Leprosy Research Support Contract

**Product Description:**

NR-19343 was produced by hydrolysis of PGL-I followed by extraction with chloroform. Application of the chloroform phase to a Waters Sep-Pak silica cartridge and elution with chloroform provides the fatty acids. Additional elution with 5% methanol in chloroform provides the deacylated PGL-I.

PGL-I is unique to *Mycobacterium leprae* (*M. leprae*) where it is produced in copious amounts. It plays a role in invasion of human nerves by binding to the receptors on the Schwann cells. PGL-I causes a specific antibody to be produced in the sera of leprosy patients.

**Material Provided:**

Each vial contains approximately 250 µg of dried deacylated phenolic glycolipid-I (PGL-I) and fatty acids from PGL-I pooled from up to three different strains of *M. leprae*. Please refer to the Certificate of Analysis for information regarding the specific strains used in the production of each lot.

Note: NR-19343 is best solubilized in 2:1 chloroform methanol but can also be reconstituted in 100% methanol or ethanol. NR-19343 is not soluble in aqueous buffers.

**Packaging/Storage:**

NR-19343 was packaged aseptically in glass vials. The product is provided at room temperature and can be stored at room temperature until reconstituted. Reconstituted material should be aliquoted and stored frozen at -20°C or colder. Freeze-thaw cycles should be avoided.

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: *Mycobacterium leprae* Deacylated Phenolic Glycolipid-I (PGL-I) and Fatty Acids from PGL-I, NR-19343.”

**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](#). 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Zhang, J., et al. “A Modified Synthesis and Serological Evaluation of Neoglycoproteins Containing the Natural Disaccharide of PGL-I from *Mycobacterium leprae*.” [Bioorg. Med. Chem. Lett.](#) 20 (2010): 3250-3253. PubMed: 20462755.

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