

***Mycobacterium leprae*
Monodeglycosylated PGL-I**

Catalog No. NR-19345

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Contributor and Manufacturer:

NIH – Leprosy Research Support Contract

Product Description:

NR-19345 was produced by acid hydrolysis using 0.3 N HCl at 100°C for two hours, which leads to formation of multiple products and some unhydrolyzed PGL-I. Preparative TLC in ether:acetone (9:1, v/v) with scraping of individual bands and elution of specific components from silica gives monodeglycosylated 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.¹

Material Provided:

Each vial contains approximately 250 µg of dried monodeglycosylated 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: Monodeglycosylated PGL-I is soluble in 2:1 chloroform methanol or 100% methanol or ethanol. NR-19345 is not soluble in aqueous buffers.

Packaging/Storage:

NR-19345 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 BEI Resources, NIAID, NIH: *Mycobacterium leprae* Monodeglycosylated PGL-I, NR-19345.”

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 <http://www.cdc.gov/biosafety/publications/bmb15/index.htm>.

Disclaimers:

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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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