

***Mycobacterium leprae*, ND-O-BSA (PGL-I based Glycoconjugate of Bovine Serum Albumin)**

Catalog No. NR-19346

This reagent is the tangible property of the U.S. Government.

For research use only. Not for human use.

Contributor and Manufacturer:

NIH – Leprosy Research Support Contract

Product Description:

NR-19346 was made using the serologically active terminal disaccharide (ND; natural disaccharide) portion of phenolic glycolipid-I (PGL-I) linked to bovine serum albumin (BSA) via an octyl linker arm. PGL-I is unique to *Mycobacterium 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 0.25 mg of lyophilized NR-19346. NR-19346 can be reconstituted in sterile phosphate buffered saline, pH 7.2, or another suitable buffer.

Packaging/Storage:

NR-19346 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*, ND-O-BSA (PGL-I based Glycoconjugate of Bovine Serum Albumin), NR-19346.”

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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