

***Mycobacterium leprae* Phenolic Glycolipid-I (PGL-I)**

Catalog No. NR-19342

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

Product Description: NR-19342 is a preparation of the phenolic glycolipid-1 (PGL-I) of *Mycobacterium leprae* (*M. leprae*) extracted from a pool of infected armadillo liver and spleen tissue, and not from the bacilli. The extraction method involves dissolving the crude lipid extract in petroleum ether and precipitating PGL-I and other lipids with cold acetonitrile. The PGL-I is purified from the precipitate using Waters preparative Sep-Pak silica cartridges followed by preparative thin layer chromatography.

Note: PGL-I has a glassy appearance and can be difficult to observe in the glass vial.

Lot¹: 63890724

Manufacturing Date: 29OCT2010

TEST	SPECIFICATIONS	RESULTS
Thin Layer Chromatography (TLC)	Product visible after charring	Product visible after charring (Figure 1)
Quantity per vial	~ 1 mg	~ 1 mg
Volume per vial	Report results	0.5 mL
MALDI-TOF Mass Spectrometry Spot scraped from TLC of NR-19342 lot: 63890724 vial NR-19342 lot: 63890724 vial	Peaks consistent with PGL-I ² Peaks consistent with PGL-I ²	Peaks consistent with PGL-I (Figure 2) Peaks consistent with PGL-I (Figure 2)

¹NR-19342 bulk lot: *M.lep*PGL-I.JT.10.14.10 was rehydrated in 2:1 chloroform:methanol, vialled and dried on 30NOV2015 as NR-19342 lot: 63890724. Testing by BEI Resources was performed on rehydrated NR-19342 lot: 63890724.

²Spectrum consistent with *M. leprae* PGL-I (Kai, M., et al. "Identification of Trehalose Dimycolate (Cord Factor) in *Mycobacterium leprae*." *FEBS Lett.* 581 (2007): 3345-3350. PubMed: 17601578.)

Date: 12 JAN 2016

Signature:



BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.



Figure 1: TLC of PGL-I

NR-19342 lot 63890724 was resuspended in 2:1 chloroform:methanol at a concentration of 5 µg/µL. 25 µg of PGL-I was developed in 95/5 chloroform:methanol and visualized with α-naphthol/sulfuric acid and charring.

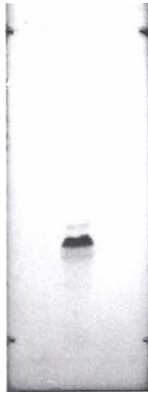


Figure 2: MALDI-TOF Mass Spectrometry of PGL-I

The PGL-I spot from TLC was scraped and analyzed in positive electrospray mode with a dihydrobenzoic acid (DHB) matrix.

