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SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-19346

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.

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.

Lot: 60708344 **Manufacturing Date: 01FEB2011**

QC testing was performed by Colorado State University under the Leprosy Research Support Contract (NIH). The Colorado State University documentation for lot ND-O-BSA 2.1.11.KL is attached.

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contractor 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.

Support Provided by NIAID

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QUALITY CONTROL SHEET FOR ND-O-BSA (SYNTHETIC PGL-I)

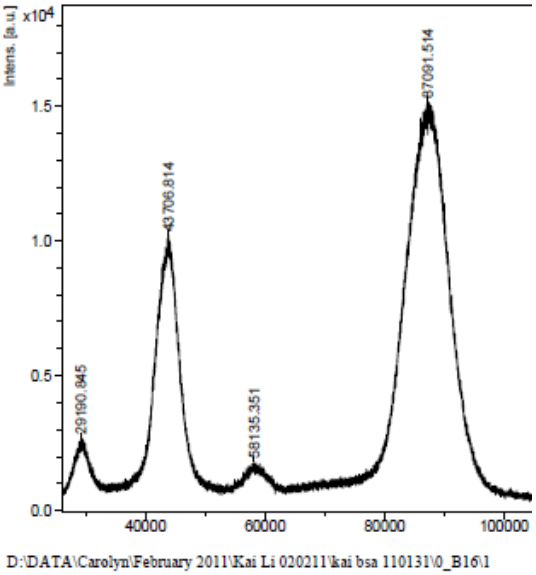
General Information
Product Lot Number: ND-O-BSA 2.1.11.KL

Purification Information
Starting material: disaccharide hydrazide Batch AL 20-22, 20 mg; bovine serum albumin, 26.0 mg
Starting Material Lot #: AL 20-22 hydrazide 84 mg total
Protocol used (SOP #'s): Delphi Chatterjee protocol with minor modifications by Dr. Kai Li (Zhang, J., D. Chatterjee, P. J. Brennan, J. S. Spencer, and A. Liav. 2010. A modified synthesis and serological evaluation of neoglycoproteins containing the natural disaccharide of PGL-I from *Mycobacterium leprae*. Bioorg. Med. Chem. Lett. 20:3250-3253)
Date started: 1/31/11 Date completed: 2/1/11
Notebook; page(s): Kai Li Notebook #1, pp 99
Additional notes (if applicable): Protein concentration of pooled fractions determined by BCA assay. Number of disaccharide sugar residues per BSA calculated to be 40 according to MALDI data.

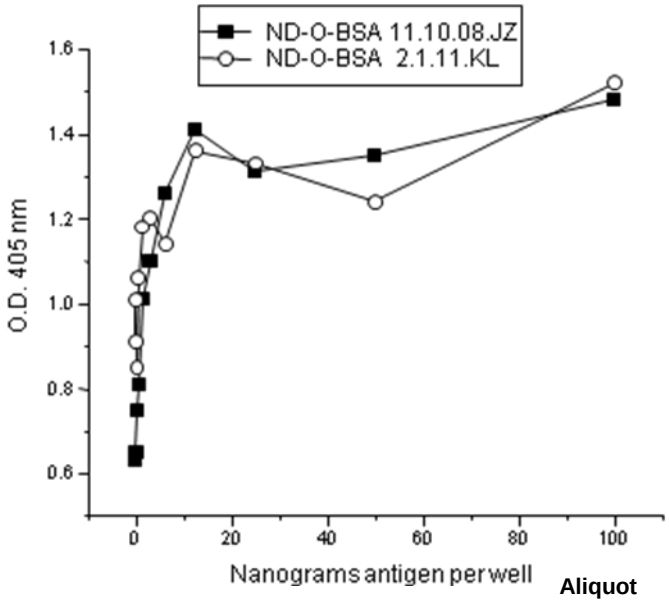
Quality Control Information:
Total volume: 2 ml per fraction, fractions 27-44 pooled Total amount of ND-O-BSA: 18.2 mg
Date lyophilized: 2/5/11 MALDI: 2/2/11 Notebook and page(s): Kai Li Notebook #1, pg 99
ELISA assay: ELISA assay on fractions to determine which ones contain peak activity performed on 2/1/11, J. Spencer, Book 5, ND-O-BSA and PGL-I, pg 30-31. Serial two-fold dilutions of ND-O-BSA coated per well (100 nanogram → 0.1 ng), this batch compared with reference standard batch ND-O-BSA 11.10.08.JZ. mAb CS-48 culture supernatant 1:5 dilution; ELISA assay performed on 7/15/11, pg 32.

QC MALDI and ELISA:

MALDI 40 disaccharides per BSA



ELISA assay



Aliquot

Information:

2 x 6.6 mg = 13.2 mg

1 x 5.0 mg = 5.0 mg

(QC checked by ELISA) 7/15/11 date

(Laboratory Supervisor) 7/15/11 date

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