

# **Certificate of Analysis for NR-14855**

# Ag85 Complex, Purified Native Protein from Mycobacterium tuberculosis, Strain H37Rv

## Catalog No. NR-14855

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

**Product Description:** The Antigen 85 Complex was isolated from *Mycobacterium tuberculosis* (*M. tuberculosis*), strain H37Rv culture filtrate proteins and purified. This complex of fibronectin-binding proteins Ag85A (FbpA), Ag85B (FbpB), and Ag85C (FbpC) is the major secreted protein component of *M. tuberculosis* culture fluids and plays a key role in the pathogenesis of tuberculosis. This protein complex is highly immunogenic and plays a role in cell wall assembly via a mycolyltransferase exchange process. All three purified antigens have shown extensive cross-reactivity and stimulate complement-mediated phagocytosis by host macrophages.

Lot: 70005734 Manufacturing Date: 07NOV2017

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 17.Rv.2.11.7.Ag85 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.

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#### WORK SHEET FOR PURIFIED NATIVE PROTEINS

### General Information

BEI Catalog Number: NR-14855

Product Description: Ag85 Complex (mixture of Rv3804c, Rv1886c, Rv0129c)

CSU Lot Number: 17.Rv.2.11.7.Ag85

Species: M. tuberculosis

Strain: H37Rv

#### **Purification Information**

Starting material: CFP: 17.Rv.2.8.9.9.CFP & 17.Rv.2.8.23.10.CFP (638.4 mg total)

Starting material (select one):

X CFP: Filter Sterilized Yes

\_\_\_\_ Cells: Irradiated \_\_\_ N/A

Viability Test Performed: N/A

Protocol used (SOP #'s): PP020.4

Date started: <u>09 / 27 / 2017</u> Date completed: <u>11 / 7 / 2017</u>

Notebook; page(s): Megan Lucas, BEI Production #3, pg 96-102

Additional notes (if applicable):

## **Quality Control Information**

Clarity of product/suspension after dialysis: clear

BCA: 5.349 μg/μl Notebook and page(s): MCL, BEI Production #3; pg 102

Total Protein: 22.374 mg

Silver Stain Date: 11/6/2017 Notebook and page(s): MCL, BEI Production #3; pg 102

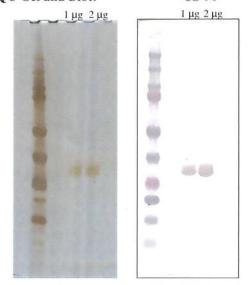
Western blot Date: 11/6/2017 Antibody used: CS-90

Notebook and page(s): MCL, BEI Production #3; pg 102

Mass Spectrometry information/file (if applicable): N/A

## QC Gel and Blot:

#### CS-90



**Aliquot Information:** 

44 x 500 μg 1 x 374 μg

(Research Associate) (date)

(Laboratory Supervisor)

11-9-17

(date)