

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:

NR-14855 is a preparation of antigen 85 (Ag85) complex purified from the culture filtrate proteins of *Mycobacterium tuberculosis* (*M. tuberculosis*), strain H37Rv.

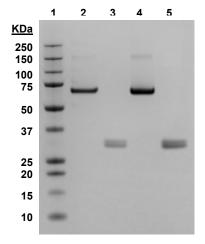
Lot: 70045514 Manufacturing Date: 20SEP2021

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 21.Rv.2.9.20.Ag85 is attached.

| TEST | SPECIFICATIONS | RESULTS |
|--|----------------|--|
| SDS-PAGE and Silver Stain ¹ | Report results | A doublet visible at approximately 30 KDa (Figure 1) |
| Concentration by Bicinchoninic Acid Protein Assay ¹ | Report results | 4.67 μg per μL |
| Western Blot Analysis ^{1,2} Monoclonal anti-Ag85 complex ³ | Reactive | Reactive (Figure 2) |

¹Retesting of NR-14855 lot 70045514 was performed by BEI Resources in September 2022 to confirm product stability.

Figure 1: SDS-PAGE and Silver Stain



Lane 1: Precision Plus Protein™ Standard

(Bio-Rad 1610373)

Lane 2: BSA, 1 µg

Lane 3: NR-14855 lot 70045514, 1 μg

Lane 4: BSA, 2 µg

Lane 5: NR-14855 lot 70045514, 2 μg

BEI Resources www.beiresources.org E-mail: contact@beiresources.org Tel: 800-359-7370

Fax: 703-365-2898

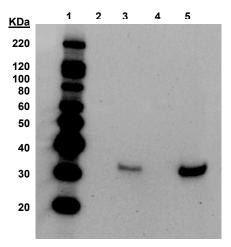
²Using bovine serum albumin (BSA) as a standard

³Monoclonal anti-M. tuberculosis Ag85 Complex (FbpA/FbpB/FbpC; Genes Rv3804c, Rv1886c, Rv0129c), Clone IT-44 (HBT7) (BEI Resources NR-50572) (1:1000 dilution)



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Figure 2: Western Blot



Lane 1: MagicMark™ XP Protein Standard

(Invitrogen® LC5602)

Lane 2: BSA, 1 µg

Lane 3: NR-14855 lot 70045514, 1 µg

Lane 4: BSA, 2 μg Lane 5: NR-14855 lot 70045514, 2 μg

/Sonia Bjorum Brower/ Sonia Bjorum Brower

17 NOV 2022

Technical Manager or designee, ATCC Federal Solutions

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.

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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: 21.Rv.2.9.20.Ag85
Species: Mycobacterium tuberculosis
Strain: H37Rv

Purification Information

Starting material: 40% Ammonium Sulfate Cut, 207.4 mg

Starting material (select one):

X CFP: Filter Sterilized Yes

___ Cells: Irradiated NA

Viability Test Performed: No Viable Organism Detected

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

Date started: <u>06/11/2021</u> Date completed: <u>09/20/2021</u>

Notebook; page(s): Starting Material: Native Proteins BEI KE #1, pg 34-41, Purification: Rachel Staat,

Notebook #1, pg 1-17

Additional notes (if applicable):

Quality Control Information

Clarity of product/suspension after dialysis: Clear

BCA: 7.196 µg /µl Notebook and page(s): RS, Notebook #1, pg 14

Total Protein: 43.201 mg

Simply Blue Date: 09/10/2021 Notebook and page(s): RS, Notebook #1, pg 17

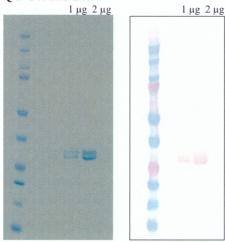
Western blot Date: 08/31/2021

Antibody used: CS-90

Notebook and page(s): RS, Notebook #1, pg 15

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

QC Gel and Blot:



Aliquot Information:

86 x 500 μg 1 x 201 μg

(Research Associate)

1/27/21 (date)

(Laboratory Supervisor)

 $\frac{1/27/2}{\text{(date)}}$