

Certificate of Analysis for NR-14828

Mycobacterium tuberculosis, Strain H37Rv, Cell Wall Fraction

Catalog No. NR-14828

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

Product Description: NR-14828 is a preparation of the cell wall fraction of *Mycobacterium tuberculosis*, strain H37Rv and contains proteins and non-protein compounds such as mAGP. Culture was grown to late-log phase in glycerol-alanine-salts medium, washed with PBS pH 7.4, and inactivated by gamma irradiation. The bacilli are suspended at a concentration of 2 g/mL in PBS containing 8 mM EDTA, DNase, RNase, and a proteinase inhibitor tablet, and broken in a French Press pressure cell at 4°C. Unbroken cells are removed by low speed (3,000 x g) centrifugation. The cell wall is isolated by centrifugation at 27,000 x g for one hour and washed two times in PBS. The final cell wall pellet is suspended and dialyzed in 0.01 M ammonium bicarbonate, quantified by BCA protein assay for protein content, and frozen.

Lot^{1,2}: 63906064 Manufacturing Date: 04SEP2011

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE and Silver Stain ²	Report results	Visible smear of cell wall proteins (Figure 1)
Concentration by Bicinchoninic Acid Protein Assay ^{2,3}	Report results	14.89 μg/μL
Quantity per vial	~ 1 mg	~ 1 mg
Volume per vial	Report results	~ 70 µL

¹Production was performed by Colorado State University (CSU) and provided as a bulk lot. NRC-14828 bulk lot 10.Rv.2.11.8.6.CW was aliquoted at ATCC® on 03DEC2015 as NR-14828 lot 63906064. Testing by BEI Resources was performed on NR-14828 lot 63906064 after vialing. The CSU documentation for bulk lot 10.Rv.2.11.8.6.CW is attached.

www.beiresources.org

Date: 06 DEC 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 by 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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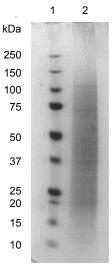
²Retesting of NR-14828 lot 63906064 was performed by BEI Resources in October 2016 to confirm product stability.

³Using BSA as a standard



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Figure 1: SDS-PAGE of Cell Wall Fraction



Lane 1: Precision Plus Protein™ Standard Lane 2: NR-14828 lot 63906064, 6.0 µg

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WORK SHEET FOR CELL WALL

General Information

Product Lot Number: 10.Rv.2.11.8.6.CW Species: Mycobacterium tuberculosis

Strain: H37Rv

Sonication and Fractionation Information

Clarity of product/suspension after dialysis: Creamy, off white (normal)

BCA: 13.64 µg /µl. Notebook and page(s): Prucha #110

Total volume: 100 ml Total amount of Protein: 1364 mg

Silver Stain Date: 09 /08 /11. Notebook and page(s): Prucha #110

QC Gel:

Aliquot Information: None

(Research Scientist)

9/20/11

(date)

(Laboratory Supervisor) 9/20/1