

Certificate of Analysis for NR-14862

MPT32/Apa (Gene Rv1860), Purified Native Protein from *Mycobacterium tuberculosis*, Strain H37Rv

Catalog No. NR-14862

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

Product Description: NR-14862 is a preparation of native MPT32/Apa (Gene Rv1860) purified from *Mycobacterium tuberculosis*, strain H37Rv culture filtrate protein fraction. The culture filtrate protein fraction was precipitated with 40% ammonium sulfate, applied to a ConA column, eluted, concentrated, dialyzed, applied to a phenyl sepharose column and eluted. The purified MPT32/Apa was dialyzed in 10 mM ammonium bicarbonate.

Lot: 61315854 Manufacturing Date: 20DEC2013

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot 13.Rv.2.12.20.45kDa.A 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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BEI Resources E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898

WORK SHEET FOR PURIFIED NATIVE PROTEINS

General Information	
Lot Number: 13.Rv.2.12.20.45kI	a.A
Product: 45kDa	3
Species: Mycobacterium tubero	ulosis
Strain: H37Rv	- Committee of the Comm
Purification Information	
Starting material: 13.Rv.2.8.6.7.0 13.Rv.2.7.9.5.CFP, 13.Rv.2.6.25.0 (1.177 g total)	FP, 13.Rv.2.8.20.8.CFP, 13.Rv.2.9.3.9.CFP, 13.Rv.2.7.23.6.CFP, 0.CFP, 13.Rv.2.6.11.8.CFP, 13.Rv.2.5.28.7.CFP, & 13.Rv.2.5.14.6.CFI
Protocol used (SOP #'s): PP019.3	and PP022.3
Date started: 10/23/2013	
Date completed: 12/20/2013	C 11 D
Notebook; page(s): Rachel Hazer	field Protein #2 pp.65-72
Additional notes (if applicable): N	aterial only went over conA and C4 columns (no phenseph column)
Quality Control Information	
Clarity of product/suspension after	dialysis: clear
BCA: 0.236 µg /µl	Notebook and page(s): Rachel Hazenfield Protein #2 pg. 72
Total volume: 74.6ml	Total amount of Protein: 17.6mg
Silver Stain Date: 12/12/2013	Notebook and page(s): Rachel Hazenfield Protein #2 pp.72
Western blot Date: 12/12/2013	Antibody used: CS-93
	Notebook and page(s): Rachel Hazenfield Protein #2 pp.72
Mass Spectrometry information/fi	e (if applicable):
QC Gel and Western:	
45kDa	CS-93
1 ug, 2ug	1 ug, 2ug
	1 45, 245
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Aliquot Information: 35 x 0.5mg, 1x 0.1mg

(Research Associate) (date)

(Laboratory Supervisor)

(date)