

ML2567 Recombinant Protein from *Mycobacterium leprae***Catalog No. NR-19341**

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

Product Description: NR-19341 is a recombinant form of a hypothetical protein (ML2567) from *Mycobacterium leprae*. The recombinant His-tagged protein was expressed in *Escherichia coli*, strain BL21(DE3)pLysS and purified using standard chromatographic techniques followed by endotoxin removal procedures.

Lot: 61391643**Manufacturing Date: 12NOV2012**

QC testing was performed by Colorado State University under the Leprosy Research Support Contract (NIH). The Colorado State University documentation for lot 12.rEC.11.12.coc.ML2567 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.

ATCC[®] is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.



Recombinant Protein Production and Quality Control Record

Date Production Started: 10/11/2012

Lot Number: 12.rEC.11.12.coc.ML2567; BEI lot# 61391643

Notebook Number and Page Number: COC TB #2 NOTEBOOK pp. 11-17; 24-29

Production from Seed Culture/ Clone: no

Production from freshly-transformed Cells: yes

Host Strain used for Gene Expression: *E. coli* BL21 (DE3) pLysS

Recombinant Plasmid possessing the Recombinant Gene: pET-23b

Culture Type? Shake Flask_____ Stationary_____ Fermenter X

Culture Size: 5L

Culture Medium: HyperBroth (Athena Enzyme Systems)

Selection (Antibiotic/ Concentration): Kan⁵⁰

Time and Temperature of culture prior to Induction: 3:00, 37.0°C

Final Concentration of IPTG added for Induction: 0.5 mM

Method for Lysis of Cells: Probe Sonication

Protein Purification Procedures: His-bind Resin Purification

Date Production Finished: 11/12/2012

NOTES ON PURIFICATION:

Cells were sonicated on ice with 60 second bursts followed by 90 second intervals.

His-bind resin purification per Novagen except for additional Endotoxin (ET) removal steps.

ET removal done by washing column with 10 column volumes (CV) of 10 mM Tris-HCl, followed by 10 CV of 0.5% ASB-14. This was again followed by 10 CV of 10 mM Tris-HCl and eluted with 5 CV of 10 mM Tris-HCl + 1 M Imidazole . All buffers were pH= 8.0.

Eluted proteins were exchanged into 10 mM Ammonium Bicarbonate

Quality Control

Lot Number: 12.rEC.11.12.coc.ML2567

Method for Determining Protein Concentration: BCA (Pierce)

Final Protein Concentration: 0.718 mg/mL

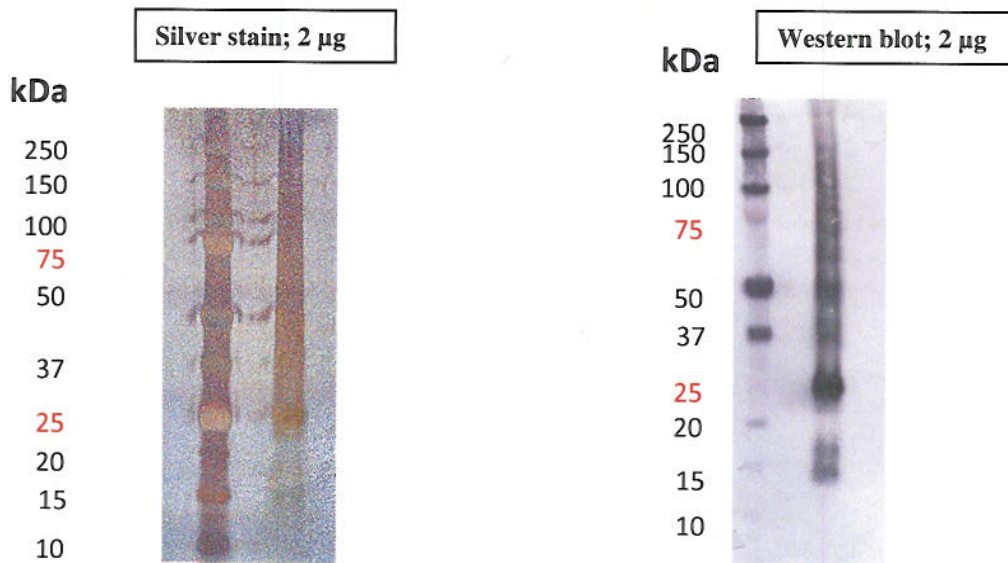
Performed Endotoxin Removal? Yes

Endotoxin Contamination: 0.168 ng/mg protein

Purity confirmed by SDS-PAGE and Silver Staining (see below)

Identity confirmed by Western Blot: x or Mass Spectrometry: _____(see below)

Antibody used for Western Blot: α -poly-Histidine Polyclonal



Aliquot Information: 12 x 0.5 mg

Producer's Name: Carma O. Cook Date: 12/21/2012

Supervisor's Name: Ka H. Deh Date: 12/27/2012