SUPPORTING INFECTIOUS DISEASE RESEARCH

Mpt64, Recombinant Protein Reference Standard

Catalog No. NR-49435

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

Product Description: NR-49435 is a recombinant form of the secreted immunogenic protein Mpt64 (also referred to as mpb64) from *Mycobacterium tuberculosis*. The recombinant protein consists of the native protein sequence in addition to a hexa-histidine tag. Mpt64 was expressed in *Escherichia coli* and purified using standard chromatographic techniques followed by endotoxin removal procedures.

Lot¹: 70006290

Manufacturing Date: 28JUN2017

TEST	SPECIFICATIONS	RESULTS
Appearance	Report results	White powder
SDS-PAGE (Coomassie Blue Stain) ²	Dominant band ~ 20 kDa > 90% pure	Dominant band of ~ 25 kDa accounts for > 90% of total staining intensity (Figure 1)
Concentration by Bicinchoninic Acid Protein Assay ^{2,3}	Report results	0.89 mg per mL
Final Product² Quantity per vial Volume per vial	Report results Report results	0.89 mg 1 mL
Western Blot Analysis ² Monoclonal anti-hexa-histidine tag ⁴	Reactive	Reactive (Figure 2)
Endotoxin Content ² Limulus Amoebocyte Lysate Assay ⁵	1 to 10000 EU/mg	< 22.5 EU/mg protein
Sterility ⁶	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹Mpt64 was harvested and purified from *E. coli* BL21 (DE3) pLysS cells transformed with BEI Resources NR-13273 lot 03.EC.08.026. ²Testing was performed on vialed, lyophilized material reconstituted with 1 mL 10 mM ammonium bicarbonate per vial. ³Using BSA as a standard

⁴Clontech, Catalog Number 631212 (1:1000 dilution)

⁵Endosafe[®] PTS Cartridge, Charles River Laboratories, Inc., Catalog Number PTSR005F

⁶Material was sterile-filtered prior to vialing and lyophilization.

Date: 31 AUG 2017

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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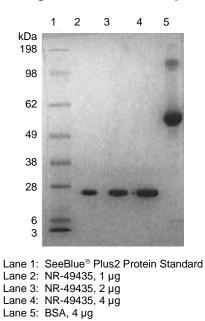


Figure 1: SDS-PAGE of Mpt64



