

Mycobacterium bovis*, Strain AF 2122/97 (ATCC[®] BAA-935[™]), Whole Cell Lysate*Catalog No. NR-31211**

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

Product Description: *Mycobacterium bovis*, strain AF 2122/97 (ATCC[®] BAA-935[™]) whole cell lysate contains proteins, lipids and carbohydrates present within the bacterial cell.

Lot: 61056063**Manufacturing Date: 13APR2012**

QC testing was performed by Colorado State University and the documentation for lot 12.BAA935.1.3.3.WCL 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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WORK SHEET FOR WHOLE CELL LYSATE

General Information

Product Lot Number: 12.BAA935.1.3.3.WCL
Species: Mycobacterium bovis
Strain: BAA935

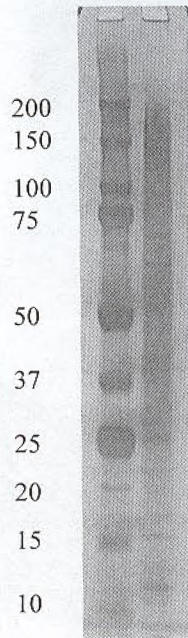
Sonication and Fractionation Information

Starting material (lot #): 12.BAA935.1.3.3.WCg
Cell amount (wet weight): 30.9g
SOP #: PP007.2 Notebook pages: CarolinaQPCR #97
Date of French Press Sonication: 04 /11 /12; Buffer used: 1mM EDTA-PBS
Centrifugation Notes 3000 rpm to remove unbroken cells
Date 10 mM ammonium bicarbonate dialysis started: 04 /11 /12
date completed: 04 /13 /12
Notebook; page(s): CarolinaQPCR #97

Quality Control Information

Clarity of product/suspension after dialysis: Creamy
BCA: 19.856 $\mu\text{g}/\mu\text{l}$. Notebook and page(s): CarolinaQPCR #97
Total volume: 140ml Total amount of Protein: 2779.8mg
Silver Stain Date: 04 /17 /11 . Notebook and page(s): CarolinaQPCR #97

QC Gel:



Aliquot Information:

None

C. McHaffey
(Research Scientist) 5/3/12
(date)

[Signature]
(Laboratory Supervisor) 5/4/2012
(date)