

***Mycobacterium leprae* Cell Membrane Fraction (MLMA)****Catalog No. NR-19331**

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**Product Description:** NR-19331 was produced from purified *Mycobacterium leprae* (*M. leprae*) whole cells (non-irradiated, non-autoclaved) extracted from a pool of infected armadillo liver and spleen tissue. Cells were sonicated for forty, one-minute cycles and an acid fast stain of the sonicate was performed to confirm complete breakage of the cells. The sonicate was centrifuged to pellet the cell wall material and the resulting supernatant was further centrifuged to pellet the cell membrane material. The cell membrane pellet was washed with phosphate buffered saline and the washed membrane preparation was quantitated for protein content by BCA assay.

**Lot: 61181929****Manufacturing Date: 14SEP2012**

Production and QC testing were performed by Colorado State University (CSU). The CSU documentation for lot M.lepMLMA.Batch103.08.23.2012.JNK is attached.

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



# QC SHEET FOR *M. LEPRAE* MLMA MEMBRANE PROTEIN

## General Information

Product Lot Number: M. lep MLMA.Batch103.08.23.2012.JNK  
Catalog Number: NR-19331  
Species: *Mycobacterium leprae*  
Strain: NHDP-55

## Cell prep pool:

Armadillo	3T50	liver	NHDP-55	harvested	02.02.2011	4.51mg
Armadillo	5L55	spleen	NHDP-55	harvested	03.15.2012	15.67mg
Armadillo	5L55	liver	NHDP-55	harvested	07.05.2012	24.65mg
Armadillo	5L55	liver	NHDP-55	harvested	07.08.2012	14.73mg
Armadillo	5L55	liver	NHDP-55	harvested	07.10.2012	23.11mg
Armadillo	5L55	liver	NHDP-55	harvested	07.12.2012	22.91mg
Armadillo	5L55	liver	NHDP-55	harvested	07.15.2012	16.71mg
Armadillo	5L55	liver	NHDP-55	harvested	07.17.2012	26.42mg
Armadillo	5L55	liver	NHDP-55	harvested	07.19.2012	12.65mg
Armadillo	5L55	spleen	NHDP-55	harvested	07.22.2012	37.32mg

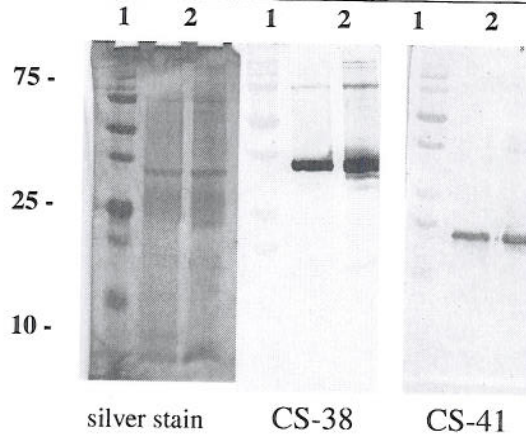
## Sonication and Fractionation Information

Starting material (lot #): Batch #103 Cell amount (wet weight): 198.68mg whole cells  
SOP #: subcellular fractionation protocol Notebook pages: Tissue Prep Book#3 p31-33  
Date of Probe Sonication: 08/21/12 Buffer used: PBS  
Centrifugation Notes 27,000 x g spin to obtain supernatant (cytosol plus membrane); 75,000 x g spin of this to obtain pellet fraction (membrane, MLMA)


## Quality Control Information


Clarity of product: light caramel color, slightly opaque  
BCA: 19.3 µg/µl Notebook and page(s): Tissue prep Book#3 34-35  
Total volume: 1 ml Total amount of Protein: 19mg  
Silver Stain Date: 09/11/12 Western blot: 4 µg MLMA per lane; CS-38 (mAb to 35 kDa, MMP-I, ML0841), 1:20 culture supernatant; α- ML2038(pAb to ML2038, bacterioferritin), 1:10,000 culture supernatant. Lane 1, Molecular Marker, Lane 2 Batch 103 MLMA, Lane 3 Batch 79 MLMA standard.

## QC Gel and Western blot:



Aliquot Information: 0.25 mg x 50 vials. 6.5mg x 1 vial.

  
Produced 09/14/12

  
Lab Supervisor 9/17/2012