

Product Information Sheet for NR-31214

Mycobacterium bovis, Strain AF 2122/97 (ATCC[®] BAA-935™), Cell Membrane Fraction

Catalog No. NR-31214

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

For research use only. Not for use in humans.

Contributor and Manufacturer:

Karen Dobos, Ph.D., Colorado State University, Fort Collins, Colorado

Product Description:

NR-31214 is a preparation of the cell membrane fraction of *Mycobacterium bovis (M. bovis)*, strain AF 2122/97 (ATCC[®] BAA-935[™]) and contains the cytoplasmic membrane and components of the outer lipid layer.

The culture was grown to late-log phase in sodium pyruvate-alanine-salts medium, washed with PBS and inactivated by gamma irradiation. The bacilli were suspended at a concentration of 2 g/mL in PBS containing 8 mM EDTA, DNase, RNase and a proteinase inhibitor tablet, and broken in a French Press pressure cell at 4°C. Unbroken cells were removed by low speed (3,000 × g) centrifugation. The cell wall was isolated by centrifugation at 27,000 × g. The supernatant was subjected to a 100,000 × g centrifugation for four hours. The resulting membrane pellet was washed with PBS, then suspended and dialyzed in 10 mM ammonium bicarbonate. Protein content was determined using the BCA protein assay.

Material Provided:

Each vial of NR-31214 contains approximately 1 mg of M. bovis, strain AF 2122/97 (ATCC® BAA-935TM) cell membrane fraction provided in 10 mM ammonium bicarbonate.

Packaging/Storage:

NR-31214 was packaged aseptically in cryovials. The product is provided frozen on dry ice and should be stored at -80°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Mycobacterium bovis*, Strain AF 2122/97 (ATCC® BAA-935 $^{\text{TM}}$), Cell Membrane Fraction, NR-31214."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers:

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References:

 Garnier, T., et al. "The Complete Genome Sequence of Mycobacterium bovis." Proc. Natl. Acad. Sci. USA 24 (2003): 7877-7882. PubMed: 12788972.

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BEI Resources www.beiresources.org E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898