

***Mycobacterium tuberculosis*, Strain H37Rv, Soluble Cell Wall Proteins**

Catalog No. NR-14840

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Contributor:

BEI Resources or NIH - TB Vaccine Testing and Research Materials Contract

Manufacturer:

Karen Dobos, Ph.D., Colorado State University, Fort Collins, Colorado, USA and NIH - TB Vaccine Testing and Research Materials Contract

Product Description:

NR-14840 is a preparation of the sodium dodecyl sulphate (SDS) soluble cell wall proteins of *Mycobacterium tuberculosis*, strain H37Rv.

The culture was grown to late-log phase in glycerol-alanine-salts medium, washed with PBS and inactivated by gamma irradiation. The bacilli were suspended 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 centrifugation. The cell wall was isolated by centrifugation at 27,000 × g and the cell wall pellet was extracted with 2% SDS in PBS. The SDS extract of the cell wall was removed by centrifugation and SDS was removed by paired-ion extraction. Following SDS removal steps, the protein was suspended in 10 mM ammonium bicarbonate. The protein content was quantified using the BCA protein assay.

Material Provided:

Each vial contains approximately 1 mg of protein in 10 mM ammonium bicarbonate provided as a frozen pellet.

Packaging/Storage:

NR-14840 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 tuberculosis*, Strain H37Rv, Soluble Cell Wall Proteins, NR-14840."

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. 6th ed.

Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbI5/index.htm.

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References:

1. Cole, S. T., et al. "Deciphering the Biology of *Mycobacterium tuberculosis* from the Complete Genome Sequence." *Nature* 393 (1998): 537-544. PubMed: 9634230. Erratum in: *Nature* 396 (1998): 190-198.
2. Hirschfield, G. R., et al. "Peptidoglycan-Associated Polypeptides of *Mycobacterium tuberculosis*." *J. Bacteriol.* 172 (1989): 1005-1013. PubMed: 2105289.

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