

***Mycobacterium tuberculosis*, Strain H37Rv, Culture Filtrate Proteins**

**Catalog No. NR-14825**

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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 or NIH - TB Vaccine Testing and Research Materials Contract

**Product Description:**

NR-14825 is a preparation of culture filtrate proteins (CFP) from *Mycobacterium tuberculosis* (*M. tuberculosis*), strain H37Rv and contains most of the excreted and secreted proteins of the organism.

The culture was grown to late log phase in glycerol-alanine-salts medium. The culture supernatant was harvested from the live cells and the CFP was concentrated and inactivated by gamma irradiation. The concentrated material was dialyzed against 10 mM ammonium bicarbonate and quantitated with the BCA protein assay. Individual lots are subjected to quality control procedures to ensure uniformity and lack of bacterial contamination.

**Material Provided:**

Each vial of NR-14825 contains approximately 1 mg of culture filtrate proteins from *M. tuberculosis*, strain H37Rv in 10 mM ammonium bicarbonate.

**Packaging/Storage:**

NR-14825 was packaged aseptically in plastic tubes. The product is provided frozen 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, Culture Filtrate Proteins, NR-14825."

**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.

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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. Dobos, K. M., et al. "Definition of the Full Extent of Glycosylation of the 45-Kilodalton Glycoprotein of *Mycobacterium tuberculosis*." *J. Bacteriol.* 178 (1996): 2498-2506. PubMed: 8626314.
3. Sonnenberg, M. G. and J. T. Belisle. "Definition of *Mycobacterium tuberculosis* Culture Filtrate Proteins by Two-Dimensional Polyacrylamide Gel Electrophoresis, N-Terminal Amino Acid Sequencing, and Electrospray Mass Spectrometry." *Infect. Immun.* 65 (1997): 4515-4524. PubMed: 9353028.

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