

Ag85A (Gene Rv3804c), Purified Native Protein from *Mycobacterium tuberculosis*, Strain H37Rv

Catalog No. NR-14856

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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-14856 is a preparation of antigen 85A (Ag85A) protein purified from the culture filtrate proteins of *Mycobacterium tuberculosis*, strain H37Rv.

The culture filtrate proteins were precipitated from culture filtrate with 40% ammonium sulfate. The precipitate was suspended and applied to phenyl sepharose HPLC. Antigen 85 was obtained by increasing the pH and eluting with a high concentration of ethylene glycol. Fractionation of the Ag85 complex was performed by size exclusion chromatography to yield the Ag85A component. The purified product was dialyzed in 10 mM ammonium bicarbonate.

Material Provided:

Each vial contains approximately 250 µg of lyophilized, purified Ag85A from *Mycobacterium tuberculosis*, strain H37Rv in 10 mM ammonium bicarbonate.

Note: NR-14856 is soluble in 100 mM to 500 mM aqueous buffered salt solutions, such as phosphate buffered saline. A 10 mM ammonium bicarbonate solution can also be used.

Packaging/Storage:

NR-14856 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: Ag85A (Gene Rv3804c), Purified Native Protein from *Mycobacterium tuberculosis*, Strain H37Rv, NR-14856."

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](#). 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmb15/index.htm.

Disclaimers:

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References:

1. MycoBrowser: [Rv3804c](#)
2. Belisle, J. T., et al. "Role of the Major Antigen of *Mycobacterium tuberculosis* in Cell Wall Biogenesis." [Science](#) 276 (1997): 1420-1422. PubMed: 9162010.
3. Wiker, H. G. and M. Harboe. "The Antigen 85 Complex: A Major Secretion Product of *Mycobacterium tuberculosis*." [Microbiol. Rev.](#) 56 (1992): 648-661. PubMed: 1480113.

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