

***Mycobacterium tuberculosis*, Strain H37Rv, Purified Arabinogalactan**

Catalog No. NR-14852

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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-14852 is a preparation of arabinogalactan purified from the mycolyl-arabinogalactan peptidoglycan complex (mAGP) of *Mycobacterium tuberculosis* (*M. tuberculosis*), strain H37Rv. mAGP was hydrolyzed with potassium hydroxide in methanol and the arabinogalactan peptidoglycan insoluble material was removed with mild acid to release the arabinogalactan, which was then neutralized, dialyzed and dried.

Material Provided:

Each vial contains approximately 1 mg of dried purified arabinogalactan from *M. tuberculosis*, strain H37Rv.

Note: Arabinogalactan is soluble in distilled water.

Packaging/Storage:

NR-14852 was packaged aseptically in glass tubes. The product is provided at room temperature and should be stored at room temperature in a dry atmosphere immediately upon arrival.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Mycobacterium tuberculosis*, Strain H37Rv, Purified Arabinogalactan, NR-14852."

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/bmbl5/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. Daffe, M., P. J. Brennan and M. McNeil. "Predominant Structural Features of the Cell Wall Arabinogalactan of *Mycobacterium tuberculosis* as Revealed through Characterization of Oligoglycosyl Alditol Fragments by Gas Chromatography/Mass Spectrometry and by ¹H and ¹³C NMR Analyses." *J. Biol. Chem.* 265 (1990): 6734-6743. PubMed: 2108960.

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