Mycobacterium tuberculosis, Strain H37Rv TX-114 Soluble Proteins

Catalog No. NR-14841

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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-14841 is a preparation of the TX-114 soluble 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. Cells were broken by French press in 4% triton X-114, partitioned at 37°C and centrifuged. The upper aqueous layer was removed and the process was repeated twice to extract the triton layer. The final triton layer was precipitated in acetone to remove the triton, and the resulting pellet was phenol-extracted, and then dialyzed in water. The protein content of the final product was then quantified using the BCA protein assay.

Material Provided:

Each vial contains approximately 1 mg of NR-14841 in water provided as a frozen pellet.

Packaging/Storage:

NR-14841 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 TX-114 Soluble Proteins, NR-14841."

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. Radolf, J. D., et al. "Identificiation and Localization of Integral Membrane Proteins of Virulent *Treponema pallidum* Subsp. *pallidum* by Phase Partitioning with the Nonionic Detergent Triton X-114." Infect. Immun. 56 (1988): 490-498. PubMed: 3276627.

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