Product Information Sheet for NR-14845

Mycobacterium tuberculosis, Strain H37Rv, Purified Sulfolipid-1 (SL-1)

Catalog No. NR-14845

This reagent is the tangible property of the U.S. Government.

For research use only. Not for use in humans.

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-14845 is a preparation of purified sulfolipid-1 (SL-1) that was extracted from irradiated *Mycobacterium tuberculosis*, strain H37Rv cells with chloroform/methanol (2:1) and purified on a silica gel column. The loaded column was washed with chloroform and the SL-1 fraction was eluted with 5% methanol in chloroform. The SL-1 fraction was further purified on a C18 reverse phase Sep Pak filter which was washed with 60% chloroform in methanol to remove the trehalose dimycolate fraction followed by elution of the purified SL-1 with 25% chloroform in methanol.

Material Provided:

Each vial contains approximately 250 µg of dried purified SL-1 from *Mycobacterium tuberculosis*, strain H37Rv.

Note: SL-1 is soluble in chloroform/methanol (2:1). DMSO can also be used depending on the downstream application.

Packaging/Storage:

NR-14845 was packaged aseptically in glass vials. The product is provided frozen on blue ice and should be stored at -80°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Note: Sulfolipid appears to be very labile; dry storage at -80°C is strongly recommended to prevent breakdown.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Mycobacterium tuberculosis*, Strain H37Rv, Purified Sulfolipid-1 (SL-1), NR-14845."

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.

Disclaimers:

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References:

1. Slayden, R. A. and C. E. Barry, III. "Analysis of the Lipids of *Mycobacterium tuberculosis*." *Mycobacterium tuberculosis* Protocols Eds. T. Parish and N. G. Stoker. Towata NJ: Humana Press Inc., 2001. 229-246.
2. Besra, G. S. "Preparation of Cell-Wall Fractions from Mycobacteria." Methods in Molecular Biology, Volume 101: Mycobacteria Protocols Eds. T. Parish and N. G. Stoker. Towata NJ: Humana Press Inc., 1998. 91-107.

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