Product Information Sheet for NR-14823

Mycobacterium tuberculosis, Strain CDC1551, Whole Cell Lysate

Catalog No. NR-14823

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:

Mycobacterium tuberculosis (M. tuberculosis), strain CDC1551 whole cell lysate contains proteins, lipids and carbohydrates present within the bacterial cell.

A culture was grown to late log phase in glycerol-alanine-salts medium and inactivated by gamma irradiation. Cells were suspended in PBS buffer containing 8 mM EDTA, proteinase inhibitors, DNase, and RNase, and disrupted by French Press until approximately 90% breakage was obtained. The lysate was centrifuged to pellet the unbroken cells and the cleared supernatant was removed. The protein content of the whole cell lysate was quantified using the BCA protein assay.

Material Provided:

Each vial contains approximately 10 mg of whole cell lysate proteins from *M. tuberculosis*, strain CDC1551 provided in 10 mM ammonium bicarbonate.

Packaging/Storage:

NR-14823 was packaged aseptically in a tube. 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 CDC1551, Whole Cell Lysate, NR-14823."

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.

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