# *Mycobacterium tuberculosis*, Strain H37Rv, Whole Cell Lysate

## Catalog No. NR-14822

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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 or NIH - TB Vaccine Testing and Research Materials Contract

### Product Description:

*Mycobacterium tuberculosis*, strain H37Rv 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 of whole cell lysate contains approximately 10 mg of protein in 10 mM ammonium bicarbonate provided as a frozen pellet.

Note: NR-14822 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. Whole cell lysate fractions may not fully solubilize, but a uniform suspension can be achieved with bath sonification.

### Packaging/Storage:

NR-14822 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 BEI Resources, NIAID, NIH: *Mycobacterium tuberculosis*, Strain H37Rv, Whole Cell Lysate, NR-14822."

### 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/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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