

## ***Mycobacterium tuberculosis*, Strain East African Indian 91\_0079, Gamma-Irradiated Whole Cells**

### **Catalog No. NR-49102**

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

### **For research use only. Not for human use.**

#### **Contributor:**

BEI Resources

#### **Manufacturer:**

Karen Dobos, Ph.D., Colorado State University, Fort Collins, Colorado, USA

#### **Product Description:**

*Mycobacterium tuberculosis* (*M. tuberculosis*), strain East African Indian 91\_0079 was grown to late log phase in glycerol-alanine-salts medium and inactivated by exposure to 2.4 mRads of ionizing gamma irradiation using a <sup>137</sup>Cs source. Confirmation of inactivation was performed by Alamar Blue assay. A dose of 2.4 mRads of gamma irradiation kills *M. tuberculosis* to a 10<sup>20</sup> degree of certainty while maintaining 93% to 95% of the biological activity of the enzymes. The bacilli are harvested by filtration and washed with PBS pH 7.4.

#### **Material Provided:**

Each vial contains approximately 1 g of NR-49102 provided as a cell culture pellet.

#### **Packaging/Storage:**

NR-49102 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 East African Indian 91\_0079, Gamma-Irradiated Whole Cells, NR-49102."

#### **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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

#### **Disclaimers:**

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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. Brosch, R., et al. "A New Evolutionary Scenario for the *Mycobacterium tuberculosis* complex." Proc. Natl. Acad. USA 99 (2002): 3684-3689. PubMed: 11891304.

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