

***Mycobacterium tuberculosis*, Strain HN878, Gamma-Irradiated Whole Cells**

Catalog No. NR-49100

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For research use only. Not for use in humans.

Contributor:

BEI Resources

Manufacturer:

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

Product Description:

Mycobacterium tuberculosis (*M. tuberculosis*), strain HN878 was grown to late-log phase in glycerol-alanine-salts medium and inactivated by exposure to a Cs source with the delivery of 1.44 to 2.4 mRads of ionizing radiation (dose range is provided due to variation across the sample chamber). Confirmation of inactivation was performed by Alamar Blue assay. A dose of 2.4 mRads of gamma irradiation kills *M. tuberculosis* to a 10²⁰ 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 of NR-49100 contains approximately 1 g of gamma-irradiated whole cells from *M. tuberculosis*, strain HN878 provided as a cell culture pellet.

Packaging/Storage:

NR-49100 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 HN878, Gamma-Irradiated Whole Cells, NR-49100.”

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 \(BMBL\)](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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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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