

***Mycobacterium tuberculosis*, Strain H37Rv, Gamma-Irradiated Whole Cells Kit Containing Hypoxic and Normoxic Cultures**

**Catalog No. NR-48696**

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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:**

NR-48696 is a kit comprised of gamma-irradiated cells from two preparations of *Mycobacterium tuberculosis* (*M. tuberculosis*), strain H37Rv.

*M. tuberculosis*, strain H37Rv hypoxic culture was grown to early log phase in glycerol-alanine-salts medium, and the cells were sparged with nitrogen gas to slowly deplete oxygen. The cells were grown an additional period of time and then harvested.

*M. tuberculosis*, strain H37Rv normoxic culture was grown to mid log phase in glycerol-alanine-salts medium, and the cells were sparged with air and harvested.

Following harvest, both cultures were inactivated by exposure to a Cs source with delivery of 1.44 to 2.4 MRad of ionization radiation (dose range is provided due to variation across the sample chamber).

Kit Component	BEI Resources Product Number
<i>M. tuberculosis</i> , Strain H37Rv, Irradiated Cells (hypoxic culture)	NR-36493
<i>M. tuberculosis</i> , Strain H37Rv, Irradiated Cells (normoxic culture)	NR-36494

**Material Provided:**

Each kit consists of one vial of irradiated whole cells from a hypoxic culture and one vial of irradiated whole cells from a normoxic culture of *M. tuberculosis*, strain H37Rv, each containing approximately 1 g of cells provided as a cell culture pellet. The vials are individually labeled with the BEI Resources product number, lot number and product name.

**Packaging/Storage:**

The components of NR-48696 were packaged aseptically in plastic vials. 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 H37Rv, Gamma-Irradiated Whole Cells Kit Containing Hypoxic and Normoxic Cultures, NR-48696.”

**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/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

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**References:**

1. Lucas, M., Personal Communication.
2. 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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