

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

Catalog No. NR-48696

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:

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](#). 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale. This material may be subject to third party patent rights.

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.

ATCC® is a trademark of the American Type Culture
Collection.

