

**Genomic DNA from *Mycobacterium tuberculosis*, Strain H37Rv**

**Catalog No. NR-48669**

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

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

**Contributor:**

NIH - TB Vaccine Testing and Research Materials Contract

**Manufacturer:**

BEI Resources

**Product Description:**

Genomic DNA was obtained from a preparation of *Mycobacterium tuberculosis* (*M. tuberculosis*), strain H37Rv.

The H37Rv strain was derived from the virulent parent strain H37. *M. tuberculosis*, strain H37 was isolated in 1905 from the sputum of a patient with chronic pulmonary tuberculosis.<sup>1</sup> The complete genome of *M. tuberculosis*, strain H37Rv has been sequenced (GenBank: [AL123456](#)).<sup>2,3</sup>

NR-48669 has been qualified for PCR applications by amplification of approximately 1500 base pairs of the 16S ribosomal RNA gene.

**Material Provided:**

Each vial contains 0.7 µg to 1.5 µg of bacterial genomic DNA in TE buffer (10 mM Tris-HCl and 1 mM EDTA, pH ~ 8). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

**Packaging/Storage:**

NR-48669 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic DNA from *Mycobacterium tuberculosis*, Strain H37Rv, NR-48669."

**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. Steenken, W., Jr., W. H. Oatway, Jr. and S. A. Petroff. "Biological Studies of the Tubercle Bacillus: III. Dissociation and Pathogenicity of the R and S Variants of the Human Tubercle Bacillus (H37)." [J. Exp. Med.](#) 60 (1934): 515-540.
2. Cole, S. T., et al. "Deciphering the Biology of *Mycobacterium tuberculosis* from the Complete Genome Sequence." [Nature](#) 393 (1998): 537-544. PubMed: 9634230.
3. Camus, J.-C., et al. "Re-Annotation of the Genome Sequence of *Mycobacterium tuberculosis* H37Rv." [Microbiology \(Reading, Engl.\)](#) 148 (2002): 2967-2973. PubMed: 12368430.

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