

***Mycobacterium tuberculosis*, Strain H37Rv**

**Catalog No. NR-123**

**Product Description:** The H37Rv strain was derived from the virulent parent strain H37. *Mycobacterium tuberculosis* (*M. tuberculosis*), strain H37 was isolated in 1905 from the sputum of a patient with chronic pulmonary tuberculosis.

**Lot<sup>1</sup>: 3685765**

**Manufacturing Date: 17JUN2004**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis<sup>2</sup></b> Cellular morphology Colony morphology <sup>3</sup> Growth on Brain Heart Infusion agar Growth on MacConkey agar (without crystal violet) Motility Acid-fast stain Pigmentation (light or dark) Photoinduction (1 hour) Biochemical tests Nitrate reduction Pyrazinamidase <sup>4</sup> Urease Aryl sulfate (3 and 14 days) Catalase (semiquantitative) Iron uptake Tween 80 hydrolysis Growth in the presence of 5% Sodium chloride <sup>5</sup> Growth in the presence of Thiophene-2 carboxylic acid hydrazide (TCH) <sup>4</sup>	Gram-positive rod Report results Report results No growth Non-motile Positive (Red colonies) No pigment No pigment  Positive Report results Positive Negative Negative Negative Report results Report results Report results	Gram-positive rod Irregular, flat, erose and rough Growth No growth Non-motile Positive (Red colonies) No pigment No pigment  Positive Negative Positive Negative Negative Negative Positive Positive Negative
<b>Viability (post-freeze)<sup>2</sup></b>	Growth on agar	Growth on agar

<sup>1</sup>NR-123 was produced by propagation of ATCC<sup>®</sup> 25618™ (Lot 52000) on Middlebrook 7H10 Agar with OADC enrichment in an aerobic atmosphere for 4 weeks at 37°C.

<sup>2</sup>Lévy-Frébault, V. V. and F. Portaels. "Proposed Minimal Standards for the Genus *Mycobacterium* and for Description of New Slowly Growing *Mycobacterium* Species." *Int. J. Syst. Bacteriol.* 42 (1992): 315-323. PubMed: 1581193; see also, Kubica, G. P., T. H. Kim, and F. P. Dunbar. "Designation of Strain H37Rv as the Neotype of *Mycobacterium tuberculosis*." *Int. J. Syst. Bacteriol.* 22 (1972): 99-106.

<sup>3</sup>4 weeks at 37°C and aerobic atmosphere on Middlebrook 7H10 Agar with OADC enrichment

<sup>4</sup>85% of *M. tuberculosis* strains are positive

<sup>5</sup>Less than 15% of *M. tuberculosis* strains are positive

**Date:** 23 MAY 2011

**Signature:**



**Title:**

Technical Manager, BEI Authentication or designee

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