

***Mycobacterium tuberculosis* subsp. *tuberculosis*, Strain H37Ra**
Catalog No. NR-122

(Derived from ATCC® 25177™)

Product Description:

Mycobacterium tuberculosis (*M. tuberculosis*) subsp. *tuberculosis*, strain H37Ra is an attenuated strain derived from the virulent parent strain H37. Strain H37 was isolated in 1905 from the sputum of a patient with chronic pulmonary tuberculosis. NR-122 was produced by inoculation of BEI Resources seed lot 3685766 into Middlebrook 7H9 broth with ADC enrichment and grown for 21 days at 37°C in an aerobic atmosphere. Broth inoculum was added to Middlebrook 7H10 agar with OADC enrichment kolles and grown for 21 days at 37°C in an aerobic atmosphere to produce this lot.

Lot: 70055552
Manufacturing Date: 02DEC2022

| TEST | SPECIFICATIONS | RESULTS |
|---|--|---|
| Phenotypic Analysis Cellular morphology Colony morphology 14 days at 37°C in an aerobic atmosphere on Middlebrook 7H10 agar with OADC enrichment VITEK® MS (MALDI-TOF) | Gram-positive rods Report results <i>M. tuberculosis</i> | Gram-positive rods Irregular, low convex, undulate, rough and cream <i>M. tuberculosis</i> (99.9%) |
| Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1440 base pairs) Sequencing of Heat Shock Protein 65 gene (~ 440 base pairs) | ≥ 99% sequence identity to <i>M. tuberculosis</i> , strain H37Ra (GenBank: CP000611.1) ≥ 99% sequence identity to <i>M. tuberculosis</i> , strain H37Ra (GenBank: CP000611.1) | 99.5% sequence identity to <i>M. tuberculosis</i> , strain H37Ra (GenBank: CP000611.1) ¹ 100% sequence identity to <i>M. tuberculosis</i> , strain H37Ra (GenBank: CP000611.1) ¹ |
| Purity (post-freeze) Middlebrook 7H10 agar with OADC enrichment 21 days at 37°C in an aerobic atmosphere Tryptic Soy agar 21 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ | Growth consistent with expected colony morphology Growth consistent with expected colony morphology | Growth consistent with expected colony morphology Growth consistent with expected colony morphology |
| Viability (post-freeze) 14 days at 37°C in an aerobic atmosphere on Middlebrook 7H10 agar with OADC enrichment | Growth | Growth |

¹Also consistent with *M. africanum*, *M. bovis*, *M. canettii*, *M. caprae* and *M. microti*

/Sonia Bjorum Brower/

Sonia Bjorum Brower

20 MAR 2023

Technical Manager or designee, ATCC Federal Solutions

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