

## Certificate of Analysis for NR-30714

## Mycobacterium tuberculosis, Strain 96-3139

## Catalog No. NR-30714

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

**Product Description:** *Mycobacterium tuberculosis (M. tuberculosis)*, strain 96-3139 was isolated between 1995 and 2000 from human sputum from an HIV-negative patient infected with pulmonary tuberculosis in North America.

Lot<sup>1</sup>: 64121862 Manufacturing Date: 03MAY2016

SPECIFICATIONS	RESULTS
Gram-positive rods	Gram-positive rods
Report results	Irregular, slight peaked, undulate, rough and cream
≥ 7 days	21 days
Negative	Negative
Positive	Positive
Positive (red colonies)	Positive (red colonies)
Negative (no pigment)	Negative (no pigment)
Negative (no pigment)	Negative (no pigment)
Positive (no pigment)	Positive (no pigment)
Positive	Positive
Positive	Positive
Positive	Positive
≥ 99% sequence identity to <i>M. tuberculosis</i> type strain (GenBank: AL123456)	100% sequence identity to <i>M. tuberculosis</i> type strain  (GenBank: AL123456)⁵
Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Report results	No growth
Growth	Growth
	Report results  ≥ 7 days Negative Positive Positive (red colonies) Negative (no pigment) Negative (no pigment) Positive (no pigment)  Positive Positive Positive Positive  ≥ 99% sequence identity to M. tuberculosis type strain (GenBank: AL123456)  Growth consistent with expected colony morphology Report results

<sup>&</sup>lt;sup>1</sup>NR-30714 was produced by inoculation of the deposited material into Middlebrook 7H9 broth with ADC enrichment. Broth inoculum was added to Middlebrook 7H10 agar with OADC enrichment kolles, which were grown for 49 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> to produce this lot.

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898

<sup>&</sup>lt;sup>2</sup>Information on Mycobacterium testing is available from Ribón, W. "Biochemical Isolation and Identification of Mycobacteria." <u>Biochemical Testing.</u> (2012) Jose C. Jimenez-Lopez (Ed.), InTech, <a href="http://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria">http://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria</a> and Lévy-Frébault, V. V. and F. Portaels. "Proposed Minimal Standards for the Genus *Mycobacterium* and for Description of New Slowly Growing *Mycobacterium* Species." <a href="https://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria">https://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria</a> and Lévy-Frébault, V. V. and F. Portaels. "Proposed Minimal Standards for the Genus *Mycobacterium* and for Description of New Slowly Growing *Mycobacterium* Species." <a href="https://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacterium">https://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacterium</a> and Lévy-Frébault, V. V. and F. Portaels. "Proposed Minimal Standards for the Genus *Mycobacterium* and for Description of New Slowly Growing *Mycobacterium* Species." <a href="https://www.intechopen.com/books/biochemical-testing/bio

<sup>&</sup>lt;sup>3</sup>21 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Middlebrook 7H10 agar with OADC enrichment

<sup>&</sup>lt;sup>4</sup>All mycobacteria produce niacin but only *M. tuberculosis* accumulates it, resulting in a positive test for *M. tuberculosis*.

<sup>&</sup>lt;sup>5</sup>Also consistent with *M. africanum, M. bovis, M. canettii, M. caprae* and *M. microti* 

<sup>&</sup>lt;sup>6</sup>Purity of this lot was assessed for 52 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>.



## **Certificate of Analysis for NR-30714**

**Date**: 19 JAN 2018 **Signature**:

**BEI Resources Authentication** 

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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

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

BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898