

***Mycobacterium tuberculosis*, Strain CDC1551, Transposon Mutant 245 (MT3409, Rv3310)**

**Catalog No. NR-15732**

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

**Product Description:**

*Mycobacterium tuberculosis* (*M. tuberculosis*), transposon mutant 245 was created by disruption of an acid phosphatase (MT3409, Rv3310) of the wild-type strain CDC1551. *M. tuberculosis*, strain CDC1551 is a clinical isolate that exhibited high levels of infectivity and virulence during a tuberculosis outbreak that occurred in rural Kentucky and Tennessee from 1994 to 1996. NR-15732 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 21 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> to produce this lot.

**Lot: 70033485**

**Manufacturing Date: 23MAR2020**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Colony morphology Middlebrook 7H10 agar with OADC enrichment 21 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> Lowenstein-Jensen (LJ) agar Tryptic Soy agar Acid-fast stain Antibiotic Susceptibility <sup>2</sup> Kanamycin (20 µg/mL) Hygromycin (50 µg/mL)	Report results  Report results Report results Positive (red colonies)  Resistant Susceptible	Irregular, slight peaked, undulate, cream and rough  Growth Growth <sup>1</sup> Positive (red colonies)  Resistant Susceptible
<b>Purity (post-freeze)</b> Middlebrook 7H10 agar with OADC enrichment 31 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> Tryptic Soy agar 21 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub>	Growth consistent with expected colony morphology Report results	Growth consistent with expected colony morphology Growth consistent with expected colony morphology
<b>Point of Insertion<sup>2,3</sup></b> Base number (TA site) relative to the start position of ORF	Report results	756

<sup>1</sup>A small number of tiny colonies were observed on the primary inoculation zone as a result of residual growth medium present in the inoculate.

<sup>2</sup>Performed on the seed material by Colorado State University under the TB Vaccine Testing and Research Materials Contract (NIH)

<sup>3</sup>The POI deviates by less than 10 base pairs from the POI reported by Johns Hopkins University.

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