

***Mycobacterium tuberculosis*, Strain CDC1551, Transposon Mutant 3271 (MT0459, Rv0443)**
Catalog No. NR-18896

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

Product Description:

Mycobacterium tuberculosis (*M. tuberculosis*), transposon mutant 3271 was created by disruption of a conserved hypothetical protein (MT0459, Rv0443) 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-18896 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 24 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

Lot: 70030751
Manufacturing Date: 19DEC2019

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Colony morphology ¹ Middlebrook 7H10 agar with OADC enrichment Lowenstein-Jensen (LJ) agar Tryptic Soy agar Acid-fast stain Antibiotic Susceptibility ² 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 Positive (red colonies) Resistant Susceptible
Purity (post-freeze) Middlebrook 7H10 agar with OADC enrichment ³ Tryptic Soy agar ⁴	Growth consistent with expected colony morphology Report results	Growth consistent with expected colony morphology Growth consistent with expected colony morphology
Point of Insertion^{2,5} Base number (TA site) relative to the start position of ORF	Report results	217

¹21 days at 37°C in an aerobic atmosphere with 5% CO₂
²Performed on the seed material by Colorado State University under the TB Vaccine Testing and Research Materials Contract (NIH)

³Purity of this lot was assessed for 31 days at 37°C in an aerobic atmosphere with 5% CO₂.

⁴Purity of this lot was assessed for 21 days at 37°C in an aerobic atmosphere with 5% CO₂.

⁵The POI deviates by less than 10 base pairs from the POI reported by Johns Hopkins University.

/Heather Couch/

Heather Couch

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Program Manager or designee, ATCC Federal Solutions

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