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SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-18919

Mycobacterium tuberculosis, Strain CDC1551, Transposon Mutant 3334 (MT1363, Rv1321)

Catalog No. NR-18919

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

Product Description:

Mycobacterium tuberculosis (M. tuberculosis), transposon mutant 3334 was created by disruption of a conserved hypothetical protein (MT1363, Rv1321), 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-18919 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 25 days at 37°C in an aerobic atmosphere with 5% CO_2 to produce this lot.

Lot: 70043200 **Manufacturing Date: 22NOV2022**

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Colony morphology		
33 days at 37°C in an aerobic atmosphere with 5% CO_2		
Middlebrook 7H10 agar with OADC enrichment	Report results	Irregular, slight peaked, undulate, cream and rough
Lowenstein-Jensen (LJ) agar	Report results	Growth
Tryptic Soy agar	Report results	Growth
Acid-fast stain	Positive (red colonies)	Positive (red colonies)
Antibiotic Susceptibility[1]		
Kanamycin (20 µg/mL)	Resistant	Resistant
Hygromycin (50 µg/mL)	Susceptible	Susceptible
Purity (post-freeze)		
Middlebrook 7H10 agar with OADC enrichment	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
33 days at 37°C in an aerobic atmosphere with 5% CO_2		
Tryptic Soy agar	Report results	Growth consistent with expected colony morphology
21 days at 37°C in an aerobic atmosphere with 5% CO_2		
Point of Insertion[1,2]		
Base number (TA site) relative to the start position of ORF	Report results	394

[1]Performed on the seed material by Colorado State University under the TB Vaccine Testing and Research Materials Contract (NIH)
[2]The POI deviates by less than 10 bp from the POI reported by Johns Hopkins University.

/Sonia Bjorum Brower/
Sonia Bjorum Brower 21 JUL 2025
Technical Manager or designee, ATCC Federal Solutions

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.

Support Provided by NIAID

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