

***Mycobacterium tuberculosis*, Strain CDC1551, Transposon Mutant 0501 (MT1789, Rv1747)**

Catalog No. NR-17590

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

Product Description: *Mycobacterium tuberculosis* (*M. tuberculosis*), transposon mutant 0501 was created by disruption of a probable transmembrane ATP-binding protein ABC transporter (MT1789, Rv1747) 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.

Lot¹: 70018463

Manufacturing Date: 29OCT2018

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Colony morphology ² Middlebrook 7H10 agar with OADC enrichment Lowenstein-Jensen (LJ) agar Tryptic Soy agar Antibiotic Susceptibility ³ Kanamycin (20 µg/mL) Hygromycin (50 µg/mL)	Report results Report results Report results Resistant Susceptible	Irregular, slight peaked, undulate, cream and rough Growth No growth Resistant Susceptible
Purity (post-freeze) Middlebrook 7H10 agar with OADC enrichment ⁴ Tryptic Soy agar ⁵	Growth consistent with expected colony morphology Report results	Growth consistent with expected colony morphology No growth
Point of Insertion^{3,6} Base number (TA site) relative to the start position of ORF	Report results	552

¹NR-17590 was produced by inoculation of the deposited material into Middlebrook 7H9 broth with ADC enrichment. Broth inoculum was added to an LJ agar slant, which was grown for 16 days at 37°C in an aerobic atmosphere with 5% CO₂. Colonies from the LJ agar slant growth were used to inoculate Middlebrook 7H9 broth with ADC enrichment, which was grown for 24 days at 37°C in an aerobic atmosphere with 5% CO₂. 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% CO₂ to produce this lot.

²21 days at 37°C in an aerobic atmosphere with 5% CO₂

³Performed on the seed material by Colorado State University under the TB Vaccine Testing and Research Materials Contract (NIH)

⁴Purity of this lot was assessed for 49 days at 37°C in an aerobic atmosphere with 5% CO₂.

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

⁶The POI deviates by less than 10 base pairs from the POI reported by Johns Hopkins University.

/Heather Couch/
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29 MAR 2019

Program Manager or designee, ATCC Federal Solutions

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