

***Mycobacterium tuberculosis*, Strain CDC1551, Transposon Mutant 3162 (MT1684, Rv1646)**
Catalog No. NR-18849

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Product Description:

Mycobacterium tuberculosis (*M. tuberculosis*), transposon mutant 3162 was created by disruption of a PE family protein (MT1684, Rv1646) 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-18849 was produced by inoculation of the deposited material into Middlebrook 7H9 broth with ADC enrichment and 10% (v/v) 100 mM sodium pyruvate. Broth inoculum was added to Middlebrook 7H10 agar with OADC enrichment and 10% (v/v) 100 mM sodium pyruvate kolles, which were grown for 31 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot. Note: Supplementation with sodium pyruvate is not required for growth.

Lot: 70076909
Manufacturing Date: 21AUG2025

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Colony morphology Middlebrook 7H10 agar with OADC enrichment and 10% (v/v) 100 mM sodium pyruvate 35 days at 37°C in an aerobic atmosphere with 5% CO ₂ Lowenstein-Jensen (LJ) agar Tryptic Soy agar with 5% defibrinated sheep blood Acid-fast stain Antibiotic Susceptibility ¹ Kanamycin (20 µg/mL) Hygromycin (50 µg/mL)	Report results Report results Report results Positive (red colonies) Resistant Susceptible	Irregular, flat, undulate, cream and rough Growth Growth Positive (red colonies) Resistant Susceptible
Purity (post-freeze) Middlebrook 7H10 agar with OADC enrichment and 10% (v/v) 100 mM sodium pyruvate 35 days at 37°C in an aerobic atmosphere with 5% CO ₂ Tryptic Soy agar with 5% defibrinated sheep blood 35 days at 37°C in an aerobic atmosphere with 5% CO ₂	Growth consistent with expected colony morphology Report results	Growth consistent with expected colony morphology Growth consistent with expected colony morphology
Point of Insertion^{1,2} Base number (TA site) relative to the start position of ORF	Report results	571

¹Performed on the seed material by Colorado State University under the TB Vaccine Testing and Research Materials Contract (NIH)

²The POI deviates by less than 10 bp from the POI reported by Johns Hopkins University.

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12 MAY 2026

Technical Manager or designee, ATCC Federal Solutions

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