Certificate of Analysis for NR-44274

Mycobacterium abscessus subsp. *abscessus,* Strain 4530

Catalog No. NR-44274

Product Description:

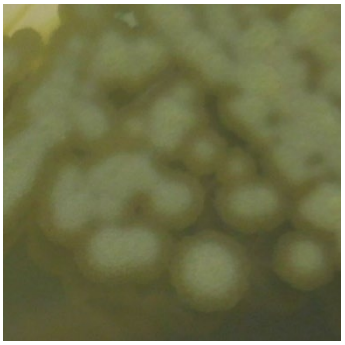
Mycobacterium abscessus (M. abscessus) subsp. *abscessus,* strain 4530 was isolated between 2009 and 2013 from human sputum in Texas, USA. NR-44274 was produced by inoculation of the BEI Resources seed lot into Middlebrook 7H9 broth with ADC enrichment and grown for 8 days at 37°C in an aerobic atmosphere with 5% CO_2. Broth inoculum was added to Middlebrook 7H10 agar with OADC enrichment kolles, which were grown for 6 days at 37°C in an aerobic atmosphere with 5% CO_2 to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70039245 **Manufacturing Date: 12OCT2020**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive rods	Gram-positive rods
Colony morphology	Report results	Irregular, raised, undulate, rough and cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
VITEK® MS (MALDI-TOF)	*M. abscessus*	*M. abscessus* (99.9%)
Acid-fast stain	Positive (red colonies)	Positive (red colonies)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 710 base pairs)	≥ 99% sequence identity to *M. abscessus* subsp. *abscessus* type strain (GenBank: MLCG01000002.1)	100% sequence identity to *M. abscessus* subsp. *abscessus* type strain (GenBank: MLCG01000002.1)[1]
Sequencing of Heat Shock Protein 65 gene (~ 430 base pairs)	≥ 99% sequence identity to *M. abscessus* subsp. *abscessus* type strain (GenBank: MLCG01000008.1)	99.8% sequence identity to *M. abscessus* subsp. *abscessus* type strain (GenBank: MLCG01000008.1)
Purity (post-freeze)		
Middlebrook 7H10 agar with OADC enrichment	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Tryptic Soy agar 8 days at 37°C in an aerobic atmosphere with 5% CO_2	Report results	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

[1]Also consistent with other mycobacterial species

Figure 1: Colony Morphology



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