

Bordetella pertussis, Strain D946

Catalog No. NR-58979

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Product Description:

Bordetella pertussis (*B. pertussis*), strain D946 was isolated in 2002 from a human infant with pertussis in the USA. Strain D946 was deposited as resistant to macrolide antibiotics due to being homozygous for an A-to-G mutation in the 23S rRNA gene. The deposited material was inoculated into Bordet-Gengou broth and grown for 6 days at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood and grown for 4 days at 37°C in an aerobic atmosphere, and the resulting subculture was vial and frozen. NR-58979 was produced by inoculation of the frozen subculture into Bordet-Gengou broth and grown for 7 days at 37°C in an aerobic atmosphere. Broth inoculum was added to Bordet-Gengou agar kolles, which were grown for 7 days at 37°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70061066

Manufacturing Date: 18AUG2023

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility (wet mount) VITEK® MS (MALDI-TOF)	Gram-negative bacilli Report results Report results <i>B. pertussis</i>	Gram-negative bacilli Circular, convex, entire, smooth and gray (Figure 1) Non-motile <i>B. pertussis</i> (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1430 base pairs)	≥ 99% sequence identity to <i>B. pertussis</i> type strain (GenBank: HE965805.1)	100% sequence identity to <i>B. pertussis</i> type strain (GenBank: HE965805.1)
Purity 7 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability	Growth	Growth

Figure 1: Colony Morphology



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