

**Neisseria meningitidis, Strain 9506**

**Catalog No. NR-32129**

**Product Description:**

*Neisseria meningitidis* (*N. meningitidis*), strain 9506 was isolated in 2004 from an infected patient in Brazil. NR-32129 was produced by inoculation of BEI Resources seed lot 62778968 into *Haemophilus* Test Medium and grown for 1 day at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>. Broth inoculum was added to Chocolate agar kolles, which were grown for 1 day at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

**Lot: 70076821**

**Manufacturing Date: 25JUN2025**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology  Motility (wet mount) VITEK® MS (MALDI-TOF)	Gram-negative Report results  Report results <i>N. meningitidis</i>	Gram-negative cocci Circular, convex, entire, smooth and gray (Figure 1) Non-motile <i>N. meningitidis</i> (99.9%)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1440 base pairs)  Digital DNA-DNA hybridization (dDDH) <sup>1</sup>	≥ 99% sequence identity to <i>N. meningitidis</i> , strain 9506 (GenBank: ANRR01000003.1) ≥ 70% for species identification	100% sequence identity to <i>N. meningitidis</i> , strain 9506 (GenBank: ANRR01000003.1) <i>N. meningitidis</i> (74.9%) <sup>2</sup>
<b>Purity (post-freeze)</b> 7 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
<b>Viability (post-freeze)</b>	Growth	Growth

<sup>1</sup>Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." *Stand. Genomic Sci.* 2 (2010): 117-134. PubMed: 21304684.

<sup>2</sup>The whole genome of *N. meningitidis*, strain 9506 (contig total length approximately 2.1 megabase pairs) was sequenced using the Illumina® NextSeq® system and was analyzed and assembled with Kraken version 2.1.3 and Unicycler v0.5.1.

**Figure 1: Colony Morphology**



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