

***Streptococcus pyogenes*, Strain H728 (Genotype *emm89*)**
Catalog No. NR-50136

Product Description: *Streptococcus pyogenes* (*S. pyogenes*), strain H728, genotype *emm89*, was isolated in 2009 from the blood of a patient with invasive pneumonia and mediastinitis in the United Kingdom.

Lot¹: 2220
Manufacturing Date: 11NOV2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Hemolysis on blood agar ³ Motility (wet mount) Biochemical tests: Catalase VITEK [®] MS (MALDI-TOF)	Gram-positive cocci Report results Report results Non-motile Negative Consistent with <i>S. pyogenes</i>	Gram-positive cocci Circular, convex, entire, smooth and cream (Figure 1) β-hemolytic Non-motile Negative <i>S. pyogenes</i> (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 770 base pairs)	≥ 99% sequence identity to <i>S. pyogenes</i> type strain (GenBank: ATXR01000029.1)	100% sequence identity to <i>S. pyogenes</i> type strain (GenBank: ATXR01000029.1)
Purity (post-freeze)⁴	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹NR-50136 was produced by inoculation of the deposited material into Tryptic Soy broth and incubated for 1 day at 37°C in an aerobic atmosphere with 5% CO₂. Broth inoculum was added to Tryptic Soy agar kolles, which were grown for 1 day at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

²1 day at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar

³1 day at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood

⁴Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology


Date: 14 MAR 2017**Signature:**

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