

Certificate of Analysis for NR-50135

Streptococcus pyogenes, Strain H293 (Genotype emm89)

Catalog No. NR-50135

Product Description: *Streptococcus pyogenes* (*S. pyogenes*), strain H293, genotype *emm*89, was isolated in 1995 from the muscle of a patient with necrotizing fasciitis in England.

Lot¹: 2218 Manufacturing Date: 03NOV2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphologies ^{2,3}	Report results	Colony type 1: Circular, flat, entire, opaque and cream (Figure 1)
		Colony type 2: Circular, convex, entire, smooth and white (Figure 1)
Hemolysis on blood agar ²	Report results	β-hemolytic
Motility (wet mount)	Non-motile	Non-motile
Biochemical tests:		
Catalase	Negative	Negative
VITEK® MS (MALDI-TOF)	Consistent with S. pyogenes	S. pyogenes (99.9%)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to S. pyogenes, strain H293 (GenBank: HG316453)	100% sequence identity to S. pyogenes, strain H293 (GenBank: HG316453)
Purity (post-freeze) ⁴	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze) ²	Growth	Growth

¹NR-50135 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.

Colony type 1
Colony type 2

Figure 1: Colony Morphology

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

³Two colony types were observed. VITEK® MS (MALDI-TOF) analysis identified cells from both colony types as *S. pyogenes*. The 16S ribosomal RNA gene of each colony type was sequenced and found to have 100% sequence identity with the other colony type and *S. pyogenes*, strain H293 (GenBank: HG316453)

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.



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Date: 07 APR 2017

Signature:

BEI Resources Authentication

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