

Staphylococcus lugdunensis, Strain M23590

Catalog No. HM-141

Product Description: *Staphylococcus lugdunensis* (*S. lugdunensis*), strain M23590 was isolated from human skin.

Lot^{1,2}: 58954313

Manufacturing Date: 11DEC2009

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis³ Cellular morphology Colony morphology ⁴ Hemolysis on blood agar Biochemical Characterization Analytical profile index (API Staph [®]) Catalase activity Arginine dihydrolase Coagulase Alkaline phosphatase Growth in the presence of 10% NaCl Growth in the presence of 15% NaCl Glycosidic Fermentation: Sucrose Trehalose Xylose	Gram-positive cocci Report results Report results Consistent with <i>S. lugdunensis</i> Positive Negative Negative Report results Growth Growth Positive Positive Negative	Gram-positive cocci Circular, low convex, entire and white (Figure 1) β-hemolytic and non-hemolytic colonies ⁵ Consistent with <i>S. lugdunensis</i> Positive Negative Negative Positive ⁶ Growth Growth Positive Positive Negative
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1400 base pairs) RiboPrinter [®] Microbial Characterization System	≥ 99% identical to depositor's sequence Consistent with <i>S. lugdunensis</i> Consistent with <i>S. lugdunensis</i>	≥ 99% identical to depositor's sequence Consistent with <i>S. lugdunensis</i> Consistent with <i>S. lugdunensis</i>
Viability (post-freeze)⁴	Growth	Growth

¹HM-141 was deposited as *Staphylococcus epidermidis* by Sarah K. Highlander, Associate Professor, Department of Molecular Virology and Microbiology, Baylor College of Medicine, Houston, Texas. Characterization of the deposited material by sequencing, riboprinter and biochemical analyses identified the isolate as *S. lugdunensis*.

²HM-141 was produced by inoculation of the deposited material into Brain Heart Infusion Broth (BD 237500) and grown 24 hours at 37°C. Broth inoculum was added to Kolles which were grown 24 hours at 37°C to produce this lot.

³Frenay, J., et al. "*Staphylococcus lugdunensis* sp. nov. and *Staphylococcus schleiferi* sp. nov., Two Species from Human Clinical Specimens." *Int. J. Syst. Bacteriol.* 38 (1988): 168-172.

⁴24 hours at 37°C and aerobic atmosphere on Tryptic Soy Agar with 5% sheep blood

⁵The 16S gene of each colony type was sequenced and determined to be 100% identical.

⁶≥ 90% of *S. lugdunensis* strains are alkaline phosphatase negative

Figure 1



Date: 18 APR 2011

Signature: 

Title: Technical Manager, BEI Authentication or designee

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