Certificate of Analysis for HM-121

Streptococcus salivarius, Strain SK126

Catalog No. HM-121

Product Description: *Streptococcus salivarius* (*S. salivarius*), strain SK126 was isolated from normal skin of the right arm of a 47-year-old woman.

Lot[1,2]: 64426204 **Manufacturing Date: 29JUL2016**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology[3]	Report results	Circular, low convex, entire, smooth and white (Figure 1)
Motility (wet mount)	Report results	Non-motile
VITEK® MS (MALDI-TOF)	*S. salivarius*	*S. salivarius* (99.9%)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 890 base pairs)	≥ 99% sequence identity to *S. salivarius*, strain SK126 (GenBank: ACLO01000035.1)	99.9% sequence identity to *S. salivarius*, strain SK126 (GenBank: ACLO01000035.1)[4]
Purity (post-freeze)[5]	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)[3]	Growth	Growth

[1]Quality control of HMP material is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

[2]*S. salivarius*, strain SK126 was deposited by Dr. Guillermo I. Perez-Perez, D.Sc., Associate Professor of Medicine, Departments of Medicine and Microbiology; School of Medicine, New York University, New York, New York, USA. The deposited material was inoculated into Tryptic Soy broth and incubated for 1 day at 37°C in an aerobic atmosphere with 5% CO_2. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles which were grown for 1 day at 37°C in an aerobic atmosphere with 5% CO_2 and preserved in 10% glycerol. HM-121 was produced by inoculation of the preserved material into Brain Heart Infusion broth and incubated for 1 day at 37°C in an aerobic atmosphere with 5% CO_2. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles which were grown 1 day at 37°C in an aerobic atmosphere with 5% CO_2 to produce this lot.

[3]1 day at 37°C in an aerobic atmosphere with 5% CO_2 on Tryptic Soy Agar with 5% defibrinated sheep blood

[4]Also consistent with *Streptococcus thermophilus*

[5]Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology

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Date: 08 SEP 2016 **Signature:**

BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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