b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for HM-1090

Actinomyces sp., Strain S6-Spd3

Catalog No. HM-1090

Product Description: *Actinomyces* sp., strain S6-Spd3 is a vaginal isolate obtained in 2012 from a woman with bacterial vaginosis in Seattle, Washington, USA.

Lot[1,2]: 70012269 **Manufacturing Date: 23MAR2018**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive rods	Gram-positive rods[3]
Colony morphology[4]	Report results	Circular, low convex, entire, smooth and gray (Figure 1)
Motility (wet mount)	Report results	Non-motile
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1420 base pairs)	≥ 99% sequence identity to *Actinomyces* sp., strain S6-Spd3 (GenBank: JRMV01000269.1)	100% sequence identity to *Actinomyces* sp., strain S6-Spd3 (GenBank: JRMV01000269.1)
Purity (post-freeze)		
Anaerobic growth[5]	Growth consistent with expected colony morphology	Consistent with expected colony morphology
Aerobic growth[6]	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)[4]	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]*Actinomyces* sp., strain S6-Spd3 was deposited by Maria V. Sizova, Department of Biology, Northeastern University, Boston, Massachusetts, USA. HM-1090 was produced by inoculation of the deposited material into Actinomyces broth, which was used to inoculate a Tryptic Soy agar with 5% defibrinated sheep blood slant and grown for 4 days at 37°C in an anaerobic atmosphere (< 5% O_2; Remel™ Pack-Anaero™). After a hold at room temperature in an anaerobic atmosphere for 22 days, colonies from agar growth were used to inoculate Actinomyces broth, which was grown for 5 days at 37°C in an anaerobic atmosphere. Broth inoculum was passaged once in Actinomyces broth for 4 days at 37°C in an anaerobic atmosphere to produce this lot.

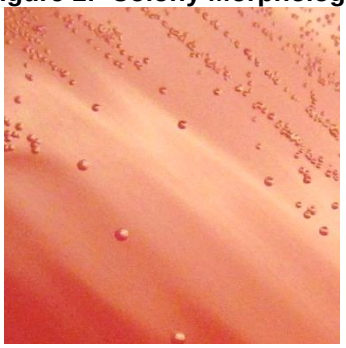
[3]*Actinomyces* species are reported to be Gram-positive, however, Gram-variable staining can be observed when grown under aerobic conditions. For more information, please refer to Nikolaitchouk, N., et al. "Characterization of *Actinomyces* Isolates from Samples from the Human Urogenital Tract: Description of *Actinomyces urogenitalis* sp. nov." Int. J. Syst. Evol. Microbiol. 50 (2000): 1649-1654. PubMed: 10939672.

[4]4 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

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

[6]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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/Heather Couch/
Heather Couch 02 AUG 2018
Program Manager or designee, ATCC Federal Solutions

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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