b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for HM-789

Streptomyces sp., Strain HGB0020

Catalog No. HM-789

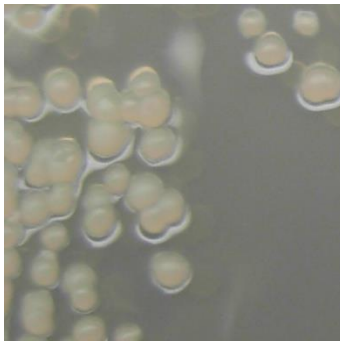
Product Description: *Streptomyces* sp., strain HGB0020 was isolated from a biopsy of ileo-anal pouch mucosa of a human subject in the United States.

Lot[1,2]: 2263 **Manufacturing Date: 18NOV2016**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Report results	Gram-positive rods
Colony morphology[3]	Report results	Circular, raised, entire, rough and cream (Figure 1)
Motility[4]	Non-motile	Non-motile
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 810 base pairs)	≥ 99% sequence identity to *Streptomyces* sp., strain HGB0020 (GenBank: AGER01000016.1)	100% sequence identity to *Streptomyces* sp., strain HGB0020 (GenBank: AGER01000016.1)
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]*Streptomyces* sp., strain HGB0020 was deposited by Thomas M. Schmidt, Professor, Department of Microbiology and Molecular Genetics, Michigan State University, East Lansing, Michigan, USA. HM-859 was produced by inoculation of the deposited material into ISP media 1 and incubated for 2 days at 26°C in an aerobic atmosphere. Broth inoculum was added to Yeast Malt Extract agar kolles and grown for 2 days at 26°C in an aerobic atmosphere to produce this lot.
[3]2 days at 26°C in an aerobic atmosphere on Yeast Malt Extract agar
[4]Motility test performed on Remel™ Motility Test Medium with TTC Indicator for 7 days at 26°C and 37°C in an aerobic atmosphere
[5]Purity of this lot was assessed for 7 days at 26°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood and 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: 02 FEB 2017 **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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