

***Spingobacterium* sp., Strain Ag1**

Catalog No. NR-50120

Product Description: *Spingobacterium* sp., strain Ag1 was isolated in 2014 from the midgut of *Anopheles gambiae*, strain G3, a lab strain used for malaria research, in Las Cruces, New Mexico, USA.

Lot¹: 64360356

Manufacturing Date: 22JUN2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) ³ Biochemical tests: Catalase Oxidase VITEK [®] MS (MALDI-TOF)	Gram-negative rods Report results Report results Positive Positive <i>Spingobacterium</i> sp.	Gram-negative rods Circular, convex, entire, mucoid, smooth and gray (Figure 1) Non-motile Negative ⁴ Positive <i>Spingobacterium multivorum</i> (99.9%) ⁵
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1410 base pairs)	≥ 99% sequence identity to <i>Spingobacterium</i> sp., strain Ag1 (GenBank: LBGU01000004)	99.9% sequence identity to <i>Spingobacterium</i> sp., strain Ag1 (GenBank: LBGU01000004) ⁶
Purity (post-freeze)⁷	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹NR-50120 was produced by inoculation of the deposited material into Tryptic Soy broth and grown for 1 day at 30°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown for 1 day at 30°C in an aerobic atmosphere to produce this lot.

²1 day at 30°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood agar

³*Spingobacterium* species may exhibit sliding motility.

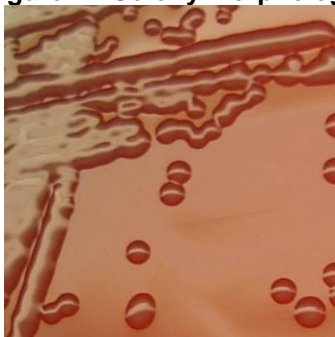
⁴Analysis of the genomic sequence indicates that a catalase gene, *katE*, is present in the genome ([WP_046676291](http://www.ncbi.nlm.nih.gov/nuccore/WP_046676291)). The test for catalase activity was performed on NR-50120, in duplicate, and produced negative results both times. The reason for loss of enzyme activity is not known. Other cases of catalase-negative *Spingobacterium* species have not been reported in the literature.

⁵VITEK[®] MS (MALDI-TOF) was used to confirm to genus.

⁶Also consistent with other *Spingobacterium* spp.

⁷Purity of this lot was assessed for 8 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



Date: 15 FEB 2017

Signature:



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