Certificate of Analysis for NR-50118

Sphingomonas sp., Strain Ag1

Catalog No. NR-50118

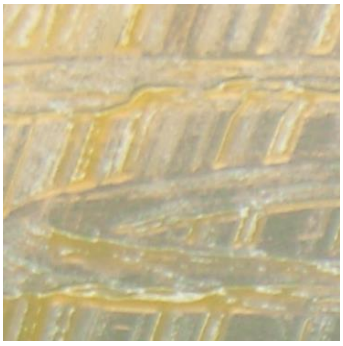
Product Description: *Sphingomonas* sp., strain Ag1 was isolated in 2014 from the midgut of *Anopheles gambiae*, strain G3, a lab strain used for malaria research, in Las Cruces, New Mexico, USA.

Lot[1]: 64360352 **Manufacturing Date: 23JUN2016**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology[2]	Report results	Circular, convex, entire, smooth and yellow (Figure 1)
Motility (wet mount)	Report results	Motile
Biochemical tests		
Catalase	Positive	Positive
Oxidase	Report results	Positive
VITEK® MS (MALDI-TOF)	*Sphingomonas* sp.	*Sphingomonas paucimobilis* (95.1%)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1390 base pairs)	≥ 99% sequence identity to *Sphingomonas* sp., strain Ag1 (GenBank: LAZX01000092)	99.7% sequence identity to *Sphingomonas* sp., strain Ag1 (GenBank: LAZX01000092)[4]
Purity (post-freeze)[5]	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)[2]	Growth	Growth

[1]NR-50118 was produced by inoculation of the deposited material into Nutrient broth. Broth inoculum was added to Nutrient agar and the inoculated agar and broth were each grown for 1 day at 30°C in an aerobic atmosphere. Colonies from the Nutrient agar culture were suspended into the Nutrient broth growth, and this biphasic culture was added to Nutrient agar kolles, which were grown for 1 day at 30°C in an aerobic atmosphere to produce this lot.
[2]1 day on Nutrient agar at 30°C in an aerobic atmosphere
[3]VITEK® MS (MALDI-TOF) was used to confirm to genus.
[4]Also consistent with other *Sphingomonas* spp.
[5]Purity of this lot was assessed for 8 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere.

Figure 1: Colony Morphology



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Date: 13 OCT 2016 **Signature:**

BEI Resources Authentication

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