Sphingomonas sp., Strain Ag1

Catalog No. NR-50118

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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Sphingomonadaceae, Sphingomonas*
Genus: *Sphingomonas* sp.
Strain: Ag1
Original Source: *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.[1]
Comment: The whole genome shotgun sequence of *Sphingomonas* sp., strain Ag1 is available (GenBank: LAZX00000000).

Sphingomonas species are generally Gram-negative, strictly aerobic, non-sporulating, rod-shaped bacteria that possess a single polar flagellum when motile. [2-5] These organisms are frequently isolated from both environmental and hospital settings.[2-5]

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in Nutrient broth supplemented with 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:
NR-50118 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:
Media:
Nutrient broth or Tryptic Soy broth or equivalent
Nutrient agar or Tryptic Soy agar or equivalent
Incubation:
Temperature: 30°C
Atmosphere: Aerobic
Propagation:
1. Keep vial frozen until ready for use, then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tube, slant and/or plate at 30°C for 1 to 3 days.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Sphingomonas* sp., Strain Ag1, NR-50118."

Biosafety Level: 2
Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:
1. Xu, J., Personal Communication.
2. Yabuuchi, E., et al. "Emendation of the Genus

Sphingomonas Yabuuchi *et al.* 1990 and Junior Objective Synonymy of the Species of Three Genera, *Sphingobium*, *Novosphingobium* and *Sphingopyxis*, in Conjunction with *Blastomonas ursincola*." Int. J. Syst. Evol. Microbiol. 52 (2002): 1485-1496. PubMed: 12361250.

3. Takeuchi, M., K. Hamana and A. Hiraishi. "Proposal of the Genus *Sphingomonas Sensu Stricto* and Three New Genera, *Sphingobium*, *Novosphingobium* and *Sphingopyxis*, on the Basis of Phylogenetic and Chemotaxonomic Analyses." Int. J. Syst. Evol. Microbiol. 51 (2001): 1405-1417. PubMed: 11491340.
4. Busse, H.-J., et al. "*Sphingomonas aurantiaca* sp. nov., *Sphingomonas aerolata* Sp. Nov. and *Sphingomonas faeni* sp. nov., Air- and Dustborne and Antarctic, Orange-Pigmented, Psychrotolerant Bacteria, and Emended Description of the Genus *Sphingomonas*." Int. J. Syst. Evol. Microbiol. 53 (2003): 1253-1260. PubMed: 13130003.
5. Chen, H., et al. "Reclassification and Emended Description of *Caulobacter leidyi* as *Sphingomonas leidyi* comb. nov., and Emendation of the Genus *Sphingomonas*." Int. J. Syst. Evol. Microbiol. 62 (2012): 2835-2843. PubMed: 22228660.

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