

***Sphingobacterium* sp., Strain Ag1**

Catalog No. NR-50120

For research use only. Not for human use.

Contributor:

Giannong Xu, Ph.D., Associate Professor, Biology Department, New Mexico State University, Las Cruces, New Mexico, USA

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Sphingomonadaceae*,
Sphingobacterium

Genus: *Sphingobacterium* sp.

Strain: Ag1

Original Source: *Sphingobacterium* 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 *Sphingobacterium* sp., strain Ag1 is available (GenBank: [LBGU00000000](#)).

Sphingobacterium species are generally Gram-negative, aerobic, non-sporulating, rod-shaped bacteria that have no flagella but may exhibit sliding motility. These organisms are frequently isolated from human specimens and hospital environments.^{2,3}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol.

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

Packaging/Storage:

NR-50120 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:

Tryptic Soy broth or Brain Heart Infusion broth or equivalent
Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated sheep blood or Brain Heart Infusion 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 2 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Sphingobacterium* sp., Strain Ag1, NR-50120."

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. "*Sphingobacterium* Gen. Nov., *Sphingobacterium spiritivorum* Comb. Nov., *Sphingobacterium multivorum* Comb. Nov., *Sphingobacterium mizutae* Sp. Nov., and *Flavobacterium indologenes* Sp. Nov.: Glucose-Nonfermenting Gram-Negative Rods in CDC Groups IIK-2 and IIb." Int. J. Syst. Bacteriol. 33 (1983): 580-598.
3. Wauters, G., et al. "Isolates Belonging to CDC Group II-i Belong Predominantly to *Sphingobacterium mizutaii* Yabuuchi *et al.* 1983: Emended Descriptions of *S. mizutaii* and of the Genus *Sphingobacterium*." Int. J. Syst. Evol. Microbiol. 62 (2012): 2598-2601. PubMed: 22199213.

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