

Cedecea sp., Strain Ag1

Catalog No. NR-50125

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Enterobacteriaceae*, *Cedecea*

Genus: *Cedecea* sp. [Originally deposited as *Enterobacter* sp. However, NR-50125 did not align favorably with other members of the *Enterobacter* genus. Digital DNA-DNA hybridization (dDDH) analysis of the sequence suggests *Cedecea* sp.]

Strain: Ag1

Original Source: *Cedecea* sp., strain Ag1 was isolated in 2012 from the midgut of *Anopheles gambiae* (*A. gambiae*), strain G3, a lab strain used for malaria research, in Las Cruces, New Mexico, USA.^{1,2}

Comments: The complete genome of *Cedecea* sp., strain Ag1 is available (GenBank: [AKXM00000000](https://www.ncbi.nlm.nih.gov/nuccore/AKXM00000000)).²

Cedecea species, formerly known as Enteric Group 15, are Gram-negative, facultatively aerobic, non-spore forming, non-encapsulated rod-shaped bacteria that are peritrichous when motile. These organisms have been isolated from clinical specimens in North America, as well as from *A. gambiae* mosquitoes.^{3,4}

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-50125 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 Nutrient broth or or equivalent
Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated sheep blood or Nutrient agar or equivalent

Incubation:

Temperature: 37°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 37°C for 1 day.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: *Cedecea* sp., Strain Ag1, NR-50125.”

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. Jiang, J., et al. "Draft Genome Sequences of *Enterobacter* sp. Isolate Ag1 from the Midgut of the Malaria Mosquito *Anopheles gambiae*." J. Bacteriol. 194 (2012): 5481. PubMed: 22965099.
3. Grimont, P. A. D., et al. "*Cedecea davisae* gen. nov., sp. nov. and *Cedecea lapagei* sp. nov., New *Enterobacteriaceae* from Clinical Specimens." Int. J. Syst. Bacteriol. 31 (1981): 317-326.
4. Noden, B. H., et al. "Mosquito Ingestion of Antibodies against Mosquito Midgut Microbiota Improves Conversion of Ookinets to Oocysts for *Plasmodium falciparum*, but not *P. yoelii*." Parasitol. Int. 60 (2011): 440-446. PubMed: 21763778.

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