

Acidaminococcus sp., Strain HPA0509

Catalog No. HM-853

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Acidaminococcaceae*,
Acidaminococcus

Species: *Acidaminococcus* sp.

Strain: HPA0509

Original Source: *Acidaminococcus* sp., strain HPA0509 was isolated from a biopsy of ileo-anal pouch mucosa of a human subject in the United States.^{1,2}

Comments: *Acidaminococcus* sp., strain HPA0509 ([HMP ID 1479](#)) is a reference genome for [The Human Microbiome Project](#) (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *Acidaminococcus* sp., strain HPA0509 was sequenced at the [Broad Institute](#) (GenBank: [ATBZ00000000](#)).

Note: HMP material is taxonomically classified by the depositor. Quality control of these materials is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material.

Acidaminococcus species are anaerobic, nonmotile, non-sporulating, Gram-negative cocci which can use amino acids, in particular, glutamic acid, as the sole carbon and energy source for growth. *Acidaminococcus* species are members of the gastrointestinal microflora of humans and animals, but have also been associated with polymicrobial infections.³⁻⁷

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Modified Chopped Meat medium supplemented with 10% glycerol.

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

Packaging/Storage:

HM-853 was packaged aseptically in 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:

Modified Chopped Meat medium or *Acidaminococcus* medium or equivalent
Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°C
Atmosphere: Anaerobic

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 2 to 3 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Acidaminococcus* sp., Strain HPA0509, HM-853."

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. [HMP ID 1479](#) (*Acidaminococcus* sp., strain HPA0509)
2. Schmidt, T. M., Personal Communication.
3. Rogosa, M. "*Acidaminococcus* gen. n., *Acidaminococcus fermentans* sp. n., Anaerobic Gram-Negative Diplococci Using Amino Acids as the Sole Energy Source for Growth." *J. Bacteriol.* 98 (1969): 756-766. PubMed: 5784223.
4. Sugihara, P. T., et al. "Isolation of *Acidaminococcus fermentans* and *Megasphaera elsdenii* from Normal Human Feces." *Appl. Microbiol.* 27 (1974): 274-275. PubMed: 4589136.
5. Jumas-Bilak, E., et al. "*Acidaminococcus intestini* sp. nov., Isolated from Human Clinical Samples." *Int. J. Syst. Evol. Microbiol.* 57 (2007): 2314-2319. PubMed: 17911303.
6. Chang, Y. J., et al. "Complete Genome Sequence of *Acidaminococcus fermentans* Type Strain (VR4)." *Stand. Genomic Sci.* 3 (2010): 1-14. PubMed: 21304687.
7. D'Auria, G., et al. "Complete Genome Sequence of *Acidaminococcus intestini* RYC-MR95, a Gram-Negative Bacterium from the Phylum *Firmicutes*." *J. Bacteriol.* 193 (2011): 7008-7009. PubMed: 22123762.

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