

**Megasphaera sp., Strain BV3C16-1**

**Catalog No. HM-823**

**For research use only. Not for human use.**

**Contributor:**

Maria V. Sizova, Ph.D., Department of Biology, Northeastern University, Boston, Massachusetts, USA

**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: Veillonellaceae, *Megasphaera*

Genus: *Megasphaera*

Strain: BV3C16-1

Original Source: *Megasphaera* sp., strain BV3C16-1 was isolated from a human vaginal swab.<sup>1</sup>

Comments: *Megasphaera* sp., strain BV3C16-1 ([HMP\\_ID 1250](#)) 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 *Megasphaera* sp., strain BV3C16-1 was sequenced at the [J. Craig Venter Institute](#) (GenBank: [AWXA00000000](#)).

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.

*Megasphaera* species are typically Gram-negative, obligately anaerobic, non-motile, non-spore-forming cocci often found in the gastrointestinal and vaginal tracts of mammals (e.g. humans and cattle) and in spoiled beer.<sup>2-4</sup> Little is known of the pathogenic potential of most *Megasphaera* species, as clinical data is scarce for these organisms.<sup>5</sup>

**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-823 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -80°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 Reinforced Clostridial medium or Modified Chopped Meat medium or equivalent

Tryptic Soy agar with 5% 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 1 to 7 days.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Megasphaera* sp., Strain BV3C16-1, HM-823."

**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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

**Disclaimers:**

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at [www.beiresources.org](http://www.beiresources.org).

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

**Use Restrictions:**

**This material is distributed for internal research, non-commercial purposes only.** This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

**References:**

1. [HMP ID 1250](#) (*Megasphaera* sp., strain BV3C16-1)
2. Rogosa, M. "Transfer of *Peptostreptococcus elsdenii* Gutierrez et al. to a New Genus, *Megasphaera* (*M. elsdenii* (Gutierrez et al.) comb. nov.)." Int. J. Syst. Bacteriol. 21 (1971): 187-189.
3. Marchandin, H., et al. "Phylogenetic Analysis of Some Sporomusa Sub-branch Members Isolated from Human Clinical Specimens: Description of *Megasphaera micronuciformis* sp. nov." Int. J. Syst. Evol. Microbiol. 53 (2003): 547-553. PubMed: 12710625.
4. Shetty, S. A., et al. "Comparative Genome Analysis of *Megasphaera* sp. Reveals Niche Specialization and Its Potential Role in the Human Gut." PLoS One 8 (2013): e79353. PubMed: 24260205.
5. Zozaya-Hinchliffe, M., D. H. Martin, and M. J. Ferris. "Prevalence and Abundance of Uncultivated *Megasphaera*-Like Bacteria in the Human Vaginal Environment." Appl. Environ. Microbiol. 74 (2008): 1656-1659. PubMed: 18203860.

ATCC® is a trademark of the American Type Culture Collection.

