

Product Information Sheet for HM-1139

Clostridiales sp., Oral Taxon 876, Strain F0540

Catalog No. HM-1139

For research use only. Not for human use.

Contributors:

Floyd E. Dewhirst, D.D.S., Ph.D., Senior Member of the Staff, Department of Microbiology and Jacques Izard, Assistant Member of the Staff, Department of Molecular Genetics, The Forsyth Institute, Cambridge, Massachusetts, USA

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: unclassified Clostridiales, Clostridiales, Oral Taxon 876

Strain: F0540

Original Source: Clostridiales sp., Oral Taxon 876, strain F0540 was isolated on September 19, 2007, from the tooth of a medically healthy, caries-free patient in Massachusetts, USA.¹

Comments: Clostridiales sp., Oral Taxon 876, strain F0540 (HMP ID 1982) 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 Clostridiales sp., Oral Taxon 876, strain F0540 was sequenced at the Genome Institute at [Washington University](#) (GenBank: [AWSZ000000000](#)).

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.

Clostridiales bacteria are generally Gram-positive, rod-shaped, obligate anaerobes that are ubiquitous in virtually all anoxic habitats where organic compounds are found, especially soils, aquatic sediments and the intestinal tracts of animals and humans.^{2,3} Bacteria of the order Clostridiales have a Gram-positive cell wall but may stain Gram-variable or Gram-negative.² Most species have the ability to form spores^{3,4} and a few are pathogenic, producing very potent biological toxins known to affect humans.⁵

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Brain Heart Infusion broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-1139 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 Reinforced Clostridial broth or Brain Heart Infusion broth or equivalent

Tryptic Soy agar with 5% sheep blood or Brain Heart Infusion agar 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: Clostridiales sp., Oral Taxon 876, Strain F0540, HM-1139."

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.

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.

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. Dewhirst, F. E. and J. Izard, Personal Communication.
2. Lawson, P. A., et al. "Anaerobes: A Piece in the Puzzle for Alternative Biofuels." *Anaerobe* 17 (2011): 206-210. PubMed: 21699990.
3. Mallozzi, M., V. K. Viswanathan and G. Vedantam. "Spore-forming Bacilli and Clostridia in Human Disease." *Future Microbiol.* 5 (2010): 1109-1123. PubMed: 20632809.
4. Paredes-Sabja, D., P. Setlow and M. R. Sarker. "Germination of Spores of Bacillales and Clostridiales Species: Mechanisms and Proteins Involved." *Trends Microbiol.* 19 (2011): 85-94. PubMed: 21112786.
5. Popoff, M. R. and P. Bouvet. "Clostridial Toxins." *Future Microbiol.* 4 (2009): 1021-1064. PubMed: 19824793.
6. [HMP ID 1982](#) (Clostridiales sp., Oral Taxon 876, strain F0540)

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

