

***Prevotella melaninogenica*, Strain D18**

**Catalog No. HM-80**

**For research use only. Not for use in humans.**

**Contributor:**

Emma Allen-Vercoe, Assistant Professor, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada

**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Prevotellaceae*, *Prevotella*

Species: *Prevotella melaninogenica*

Strain: D18 (also referred to as strain 4\_A\_2)

Original Source: *Prevotella melaninogenica* (*P. melaninogenica*), strain D18 was isolated in 2007 from an oral swab taken from a healthy 73-year-old male patient in Calgary, Alberta, Canada.<sup>1</sup>

Comments: *P. melaninogenica*, strain D18 ([HMP ID 0660](#)) 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 *P. melaninogenica*, strain D18 was sequenced at the [Broad Institute](#) (GenBank: [ACWY00000000](#)).

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.

*P. melaninogenica* is a Gram-negative, obligately anaerobic, rod-shaped bacterium commonly found in the microflora of a normal human mouth. It is an opportunistic pathogen known for involvement in patients with periodontal disease.<sup>2,3,4</sup>

**Material Provided:**

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

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

**Packaging/Storage:**

HM-80 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 media 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 days.

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Prevotella melaninogenica*, Strain D18, HM-80.”

**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 \(BMBL\)](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

**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. Allen-Vercoe, E., Personal Communication.
2. [HMP 0660](#) (*Prevotella melaninogenica*, strain D18)
3. Holdeman, L. V. and J. L. Johnson. "Description of *Bacteroides loescheii* sp. nov. and Emendation of the Descriptions of *Bacteroides melaninogenicus* (Oliver and Wherry) Roy and Kelly 1939 and *Bacteroides denticola* Shah and Collins 1981." Int. J. Syst. Bacteriol. 32 (1982): 399-409.
4. Shah, H. N. and D. M. Collins. "Prevotella, a New Genus to Include *Bacteroides melaninogenicus* and Related Species Formerly Classified in the Genus *Bacteroides*." Int. J. Syst. Bacteriol. 40 (1990): 205-208. PubMed: 2223612.
5. Wu, C. C., et al. "Emended Descriptions of *Prevotella denticola*, *Prevotella loescheii*, *Prevotella veroralis*, and *Prevotella melaninogenica*." Int. J. Syst. Bacteriol. 42 (1992): 536-541. PubMed: 1390106.

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

