

***Prevotella melaninogenica*, Strain D18**

Catalog No. HM-80

For research use only. Not for use in humans.

Contributor:

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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.¹

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.^{2,3,4}

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.

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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.

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