

Prevotella nigrescens*, Strain F0103*Catalog No. HM-271****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 nigrescens*

Strain: F0103

Original Source: *Prevotella nigrescens* (*P. nigrescens*), strain F0103 was isolated from a human oral cavity.¹

Comments: *P. nigrescens*, strain F0103 ([HMP ID 0662](#)) 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. nigrescens*, strain F0103 was sequenced at the Genome Institute at the [Broad Institute](#) (GenBank: [ADGJ00000000](#)).

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. nigrescens is a Gram-negative, obligately anaerobic, non-sporulating, rod-shaped bacterium commonly found in the microflora of the human mouth, particularly in patients with periodontal disease.² Although not viewed as virulent as some oral microorganisms, *P. nigrescens* has been associated with an increased risk of periodontitis and future coronary heart disease.³

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-271 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 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: *Prevotella nigrescens*, Strain F0103, HM-271."

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. [HMP ID 0662](#) (*Prevotella nigrescens*, strain F0103)
2. Shah, H. N., and S. E. Gharbia. "Biochemical and Chemical Studies on Strains Designated *Prevotella intermedia* and Proposal of a New Pigmented Species, *Prevotella nigrescens* sp. nov." *Int. J. Syst. Bacteriol.* 42 (1992): 542-546. PubMed: 1390107.
3. Yakob, M., et al. "*Prevotella nigrescens* and *Porphyromonas gingivalis* Are Associated with Signs of Carotid Atherosclerosis in Subjects With and Without Periodontitis." *J. Periodontal. Res.* 46 (2011): 749-755. PubMed: 21793826.
4. Dewhirst, F. E., et al. "The Human Oral Microbiome." *J. Bacteriol.* 192 (2010): 5002-5017. PubMed: 20656903.

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