

***Prevotella denticola*, Oral Taxon 291, Strain F0289**

Catalog No. HM-208

For research use only. Not for use in humans.

Contributor:

Jacques Izard, Assistant Member of the Staff, Department of Molecular Genetics, The Forsyth Institute, Boston, Massachusetts, USA

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Prevotellaceae*, *Prevotella*

Species: *Prevotella denticola*

Subtaxon: Oral taxon 291

Strain: F0289

Original Source: *Prevotella denticola* (*P. denticola*), oral taxon 291, strain F0289 was isolated from a human oral cavity.¹

Comments: *P. denticola*, oral taxon 291, strain F0289 ([HMP ID 9137](#)) 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. denticola* F0289 has been sequenced at the [J. Craig Venter Institute](#) (GenBank: [CP002589](#)).

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. denticola 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 Medium supplemented with 10% glycerol.

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

Packaging/Storage:

HM-208 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% 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 denticola*, Oral Taxon 291, Strain F0289, HM-208."

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 9137](#) (*P. denticola*, oral taxon 291, strain F0289)
2. 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.
3. 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.
4. 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.
5. Dewhirst, F. E., et al. "The Human Oral Microbiome." *J. Bacteriol.* 192 (2010): 5002-5017. PubMed: 20656903.

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