

***Selenomonas* sp., Oral Taxon 133, Strain F0473**

**Catalog No. HM-811**

**For research use only. Not for human use.**

**Contributor:**

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

**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Selenomonadaceae*<sup>1</sup>, *Selenomonas*

Species: *Selenomonas* sp.

Subtaxon: Oral Taxon 133

Strain: F0473

Original Source: *Selenomonas* sp., Oral Taxon 133, strain F0473 was isolated in 2008 from molar tooth dental plaque of a 2-year-old male patient with caries in the United States.<sup>2,3</sup>

Comments: *Selenomonas* sp., Oral Taxon 133, strain F0473 ([HMP ID 9161](#)) 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 *Selenomonas* sp., Oral Taxon 133, strain F0473 was sequenced at the [Broad Institute](#) (GenBank: [AGZT00000000](#)).

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.

*Selenomonas* species are Gram-negative, obligately anaerobic, non-sporulating, motile rods commonly found in the oral and gastrointestinal microflora of animals. Several *Selenomonas* spp. of particular clinical interest are those found in the subgingival plaque of patients with generalized aggressive periodontal disease.<sup>4-6</sup>

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in Modified Chopped Meat broth supplemented with 5% DMSO.

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

**Packaging/Storage:**

HM-811 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:**

Modified Chopped Meat broth 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 5 to 6 days.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Selenomonas* sp., Oral Taxon 133, Strain F0473, HM-811."

**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](http://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](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. Campbell, C., M. Adeolu and R. S. Gupta. "Genome-Based Taxonomic Framework for the Class *Negativicutes*: Division of the Class *Negativicutes* into the Orders *Selenomonadales* emend., *Acidaminococcales* ord. nov. and *Veillonellales* ord. nov." *Int. J. Syst. Evol. Microbiol.* 65 (2015): 3203-3215. PubMed: 25999592.
2. Izard, J., Personal Communication.
3. [HMP ID 9161](#) (*Selenomonas* sp., Oral Taxon 133, strain F0473)
4. Moore, L. V. H., J. L. Johnson, and W. E. C. Moore. "*Selenomonas noxia* sp. nov., *Selenomonas flueggei* sp. nov., *Selenomonas infelix* sp. nov., *Selenomonas diana* sp. nov., and *Selenomonas artemidis* sp. nov., from the Human Gingival Crevice." *Int. J. Syst. Bacteriol.* 36 (1987): 271-280.
5. Faveri, M., et al. "Microbiological Diversity of Generalized Aggressive Periodontitis by 16S rRNA Clonal Analysis." *Oral Microbiol. Immunol.* 23 (2008): 112-118. PubMed: 18279178.
6. Colombo, A. P., et al. "Comparisons of Subgingival Microbial Profiles of Refractory Periodontitis, Severe Periodontitis, and Periodontal Health Using the Human Oral Microbe Identification Microarray." *J. Periodontol.* 80 (2009): 1421-1432. PubMed: 19722792.

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

