

***Atopobium* sp., Oral Taxon 199, Strain F0494**

Catalog No. HM-839

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Atopobiaceae*¹, *Atopobium*

Species: *Atopobium* sp.

Subtaxon: Oral Taxon 199

Strain: F0494

Original Source: *Atopobium* sp., Oral Taxon 199, strain F0494 was isolated in September 2006 from dental plaque of a healthy 3-year-old female patient in Massachusetts, USA.^{2,3}

Comments: *Atopobium* sp., Oral Taxon 199, strain F0494 ([HMP ID 1527](#)) 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 *Atopobium* sp., Oral Taxon 199, strain F0494 was sequenced at the [Broad Institute](#) (Genbank: [ATCH01000000](#)).

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.

Atopobium species are obligate anaerobes, non-spore-forming, non-motile, Gram-positive bacteria found in normal human oral microflora.^{4,5} *Atopobium* species are of interest because its members are associated with halitosis (oral malodor) but not with periodontitis.^{6,7}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Peptone Yeast Glucose broth with 0.1% Tween 80 supplemented with 10% glycerol.

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

Packaging/Storage:

HM-839 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:

Peptone Yeast Glucose broth with 0.1% Tween 80 or Modified Chopped Meat broth or Tryptic Soy Yeast Extract broth² or equivalent

Tryptic Soy agar with 5% defibrinated sheep blood or Modified Chopped Meat broth or Tryptic Soy Yeast Extract agar² 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: *Atopobium* sp., Oral Taxon 199, Strain F0494, HM-839."

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.

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References:

1. Gupta, R. S., et al. "Molecular Signatures for the Class *Coriobacteriia* and Its Different Clades; Proposal for Division of the Class Coriobacteriia into the Emended Order Coriobacteriales, Containing the Emended Family *Coriobacteriaceae* and *Atopobiaceae* fam. nov., and Eggerthellales ord. nov., Containing the Family *Eggerthellaceae* fam. nov." Int. J. Syst. Evol. Microbiol. 63 (2013): 3379-3397. PubMed: 23524353.
2. Izard, J., Personal Communication.
3. [HMP ID 1527](#) (*Atopobium* sp., Oral Taxon 199, strain F0494).
4. Collins, M. D. and S. Wallbanks. "Comparative Sequence Analyses of the 16S rRNA Genes of *Lactobacillus minutus*, *Lactobacillus rimae* and *Streptococcus parvulus*: Proposal for the Creation of a New Genus *Atopobium*." FEMS Microbiol. Lett. 74 (1992): 235-240. PubMed: 1382033.
5. "Validation of the Publication of New Names and New Combinations Previously Effectively Published Outside the IJSB." Int. J. Syst. Bacteriol. 43 (1993): 188-189.
6. Riggio, M. P., et al. "Molecular Identification of Bacteria on the Tongue Dorsum of Subjects with and without Halitosis." Oral Dis. 14 (2008): 251-258. PubMed: 18336372.
7. Kumas, P. S., et al. "New Bacterial Species Associated with Chronic Periodontitis." J. Dent. Res. 82 (2003): 338-344. PubMed: 12709498.

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