

***Lactobacillus oris*, Strain F0423**

**Catalog No. HM-560**

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

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Lactobacillaceae*, *Lactobacillus*,

Species: *Lactobacillus oris*

Strain: F0423

Original Source: *Lactobacillus oris* (*L. oris*), strain F0423 was isolated from a human oral cavity.<sup>1,2</sup>

Comments: *L. oris*, strain F0423 ([HMP ID 9102](#)) 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 *L. oris*, strain F0423 was sequenced at the [J. Craig Venter Institute](#) (GenBank: [AFTL00000000](#)).

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.

*L. oris* is a Gram-positive, facultatively anaerobic, non-motile bacterium normally found in the human mouth.<sup>3</sup> It has shown favorable properties in characterizing potential oral probiotics.<sup>4</sup>

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in Lactobacilli MRS broth supplemented with 10% glycerol.

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

**Packaging/Storage:**

HM-560 was packaged aseptically, in screw-capped plastic 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:

Lactobacilli MRS broth or equivalent

Lactobacilli MRS agar or Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Aerobic or Microaerophilic (CO<sub>2</sub> is not required for growth)

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: *Lactobacillus oris*, Strain F0423, HM-560."

**Biosafety Level: 1**

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).

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**References:**

1. Izard, J., Personal Communication.
2. [HMP ID 9102](#) (*Lactobacillus oris*, Strain F0423)
3. Farrow, J. A. E. and M. D. Collins. "Lactobacillus oris sp. nov. from the Human Oral Cavity." *Int. J. Syst. Bacteriol.* 38 (1988): 116-118.
4. Köll, P., et al. "Characterization of Oral Lactobacilli as Potential Probiotics for Oral Health." *Oral Microbiol. Immunol.* 23 (2008): 139-147. PubMed: 18279182.
5. Dewhirst, F. E., et al. "The Human Oral Microbiome." *J. Bacteriol.* 192 (2010): 5002-5017. PubMed: 20656903.

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