

Limosilactobacillus oris, Strain F0423

Catalog No. HM-560

Product Description:

Limosilactobacillus oris (*L. oris*), strain F0423 was isolated from a human oral cavity. Previously referred to as *Lactobacillus oris*, this genus has been reclassified and the genus designation on the vial label refers to the old nomenclature. HM-560 was produced by inoculation of BEI Resources seed lot 59852328 into Lactobacilli MRS broth and grown for 2 days at 37°C in an aerobic atmosphere with 5% CO₂. The material from initial growth was passaged once in Lactobacilli MRS broth for 2 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

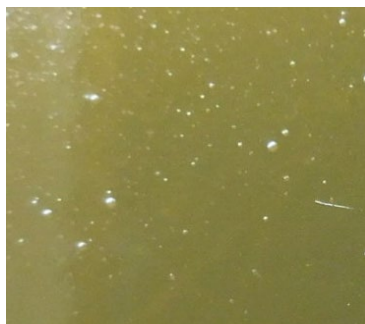
Note: Quality control of HMP material is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

Lot: 70068567

Manufacturing Date: 13SEP2024

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology 2 days at 37°C in an aerobic atmosphere 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood Colony morphology 2 days at 37°C in an aerobic atmosphere 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood Motility (wet mount) ¹	Gram-positive rods Report results Non-motile	Gram-positive rods Punctiform (Figure 1) Motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to <i>L. oris</i> , strain F0423 (GenBank: AFTL01000020.1)	99.9% sequence identity to <i>L. oris</i> strain F0423 (GenBank: AFTL01000020.1)
Purity (post-freeze) 8 days at 37°C in an aerobic atmosphere 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

¹*L. oris*, strain F0423 tested positive for motility in BEI Resources seed lot 70068567, but this was not observed in lot 70016207. Some *Lactobacillus* species have been shown to have type IV pili, resulting in twitching/swarming motility. [Shanmugasundarasamy T., D.K Govindarajan and K. Kandaswamy. "A Review on Pilus Assembly Mechanisms in Gram-Positive and Gram-Negative Bacteria". *Cell. Surf.* 20 (2022):100077. PubMed: 35493982.]

Figure 1: Colony Morphology

/Sonia Bjorum Brower/

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29 APR 2025

Technical Manager or designee, ATCC Federal Solutions

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