

***Lacticaseibacillus rhamnosus*, Strain LMS2-1 (Deposited as *Lactobacillus rhamnosus*, LMS2-1)**

**Catalog No. HM-106**

**Product Description:**

*Lacticaseibacillus rhamnosus* (*L. rhamnosus*), strain LMS2-1 is a human gastrointestinal isolate. Previously referred to as *Lactobacillus rhamnosus*, this family has been reclassified and the family designation on the vial label refers to the old nomenclature. HM-106 was produced by inoculation of BEI Resources seed lot 58732488 into Lactobacilli MRS broth and incubated for 1 day at 37°C in an aerobic atmosphere. The material from the initial growth was passaged once in Lactobacilli MRS broth for 1 day at 37°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

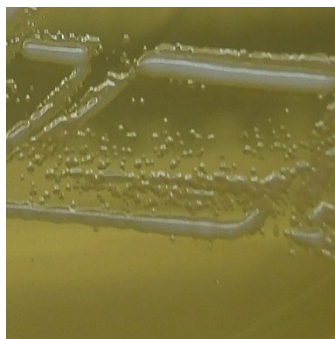
Note: Quality control of HMP material is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

**Lot: 70046948**

**Manufacturing Date: 15SEP2021**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology 1 day at 37°C in an aerobic atmosphere on Lactobacilli MRS agar  Colony morphology 1 day at 37°C in an aerobic atmosphere on Lactobacilli MRS agar  Motility (wet mount) VITEK® MS (MALDI-TOF)	Gram-positive rods  Report results  Report results <i>L. rhamnosus</i>	Gram-positive rods  Circular, low convex, entire, opaque, smooth and white (Figure 1)  Non-motile <i>L. rhamnosus</i> (99.9%)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1500 base pairs)	≥ 99% sequence identity to <i>L. rhamnosus</i> , strain LMS2-1 (GenBank: ACIZ01000148.1)	99.9% sequence identity to <i>L. rhamnosus</i> , strain LMS2-1 (GenBank: ACIZ01000148.1)
<b>Purity (post-freeze)</b> Anaerobic 7 days at 37°C in an aerobic atmosphere with and without 5% CO <sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
<b>Viability (post-freeze)</b> 1 day at 37°C in an aerobic atmosphere on Lactobacilli MRS agar	Growth	Growth

**Figure 1: Colony Morphology**



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Program Manager or designee, ATCC Federal Solutions

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