

***Bifidobacterium* sp., Strain 12_1_47BFAA**

Catalog No. HM-30

Product Description:

Bifidobacterium sp. (also referred to as *Bifidobacterium longum*), strain 12_1_47BFAA was isolated from an inflamed sigmoid colon biopsy specimen taken from a 25-year-old female patient with active Crohn's disease in Calgary, Alberta, Canada. HM-30 was produced by the inoculation of BEI Resources seed lot 60354927 into Reinforced Clostridial broth and incubated for 3 days at 37°C in an anaerobic atmosphere (< 5% O₂; Remel™ Pack-Anaero™). The material from the initial growth was passaged once in Reinforced Clostridial broth for 1 day at 37°C in an anaerobic atmosphere to produce this lot.

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: 70043160

Manufacturing Date: 13APR2021

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology 3 days at 37°C in an anaerobic atmosphere on Tryptic Soy Agar with 5% defibrinated sheep blood Motility (wet mount) VITEK® MS (MALDI-TOF)	Gram-positive rods Report results Report results <i>Bifidobacterium</i> sp.	Gram-positive rods Circular, convex, entire, smooth and white Non-motile <i>Bifidobacterium</i> sp. (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1410 base pairs)	≥ 99% sequence identity to <i>Bifidobacterium</i> sp., strain 12_1_47BFAA (GenBank: ADCN01000062.1)	100% sequence identity to <i>Bifidobacterium</i> sp., strain 12_1_47BFAA (GenBank: ADCN01000062.1)
Purity (post-freeze) Anaerobic 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood Aerobic with 5% CO ₂ 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology No growth or growth consistent with expected colony morphology	Growth consistent with expected colony morphology Growth consistent with expected colony morphology
Viability (post-freeze) 3 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood	Growth	Growth

/Heather Couch/

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01 DEC 2021

Program Manager or designee, ATCC Federal Solutions

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