

Certificate of Analysis for HM-20

Bacteroides fragilis, Strain 3_1_12

Catalog No. HM-20

Product Description:

Bacteroides fragilis (*B. fragilis*), strain 3_1_12 was isolated from the transverse colon of a healthy 52-year-old female undergoing a colon cancer screen procedure in Alberta, Canada.

Lot: 70016685^{1,2}

Manufacturing Date: 22JUN2018

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ³ Motility VITEK® MS (MALDI-TOF)	Gram-negative rods Report results Non-motile <i>B. fragilis</i>	Gram-negative rods Irregular, raised, undulate, opaque and gray (Figure 1) Non-motile <i>B. fragilis</i> (99.9%)
Antibiotic Susceptibility Profile Sensititre™ System ^{4,5} Amoxicillin/Clavulanic Acid Ampicillin/Sulbactam Cefotetan Cefoxitin Chloramphenicol Clindamycin Imipenem Metronidazole Mezlocillin Piperacillin Piperacillin/Tazobactam Tetracycline	Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results	Resistant (16 µg/mL) > 16 µg/mL ⁶ Sensitive (8 to 16 µg/mL) Intermediate (32 µg/mL) Sensitive (4 µg/mL) Resistant (> 8 µg/mL) > 8 µg/mL ⁷ Sensitive (≤ 0.5 µg/mL) 128 µg/mL Resistant (128 µg/mL) Intermediate (> 64 µg/mL) > 8 µg/mL ⁷
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (1220 base pairs)	≥ 99% sequence identity to <i>B. fragilis</i> , strain 3_1_12 (GenBank: ABZX01000086.1)	100% sequence identity to <i>B. fragilis</i> , strain 3_1_12 (GenBank: ABZX01000086.1)
Purity (post-freeze) Anaerobic growth ⁸ Aerobic growth ⁹	Consistent with expected colony morphology No growth	Consistent with expected colony morphology No growth
Viability (post-freeze)³	Growth	Growth

¹Quality 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.

²*B. fragilis*, strain 3_1_12 was deposited by Professor Emma Allen-Vercoe, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada. HM-20 lot 70016685 was produced by the inoculation of BEI Resources HMS-20 lot 64360370 into Modified Reinforced Clostridial broth and incubated for 2 days at 37°C in an anaerobic atmosphere (< 5% O₂; Remel™ Pack-Anaero™). Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown 2 days at 37°C in an anaerobic atmosphere and harvested in Modified Reinforced Clostridial broth supplemented with 10% glycerol to produce this lot.

³2 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

⁴Sensititre™ System Anaerobe MIC Plate, Thermo Scientific™, catalog number ANO2B

⁵Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

⁶Susceptibility results for this antibiotic cannot be determined since the maximum concentration of antibiotic tested is 16 µg/mL, which is interpreted as intermediate.

⁷Susceptibility results for this antibiotic cannot be determined since the maximum concentration of antibiotic tested is 8 µg/mL, which is interpreted as intermediate.

⁸Purity of this lot was assessed for 8 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.

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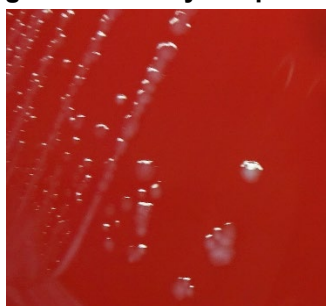
E-mail: contact@beiresources.org

Tel: 800-359-7370

Fax: 703-365-2898

⁹Purity of this lot was assessed for 8 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



/Heather Couch/

Heather Couch

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Program Manager or designee, ATCC Federal Solutions

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