b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

# Certificate of Analysis for HM-710

## *Bacteroides fragilis*, Strain CL07T12C05

## Catalog No. HM-710

## Product Description:

*Bacteroides fragilis (B. fragilis)*, strain CL07T12C05 was isolated from healthy adult human feces in Massachusetts, USA.

**Lot: 70008329[1,2]** **Manufacturing Date: 18SEP2017**

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| **Phenotypic Analysis** | | |
| Cellular morphology | Gram-negative rods | Gram-negative rods |
| Colony morphology[3] | Report results | Circular, convex, undulate, translucent and gray (Figure 1) |
| Motility | Motile | Motile |
| VITEK® MS (MALDI-TOF) | *B. fragilis* | *B. fragilis* (99.9%) |
| **Antibiotic Susceptibility Profile** | | |
| Sensititre™ System[4,5] | | |
| Amoxicillin/Clavulanic Acid | Report results | Sensitive (1 µg/mL) |
| Ampicillin/Sulbactam | Report results | Sensitive (2 µg/mL) |
| Cefotetan | Report results | Sensitive (≤ 4 µg/mL) |
| Cefoxitin | Report results | Sensitive (2 to 8 µg/mL) |
| Chloramphenicol | Report results | Sensitive (≤ 4 µg/mL) |
| Clindamycin | Report results | Resistant (> 8 µg/mL) |
| Imipenem | Report results | Sensitive (≤ 0.12 µg/mL) |
| Meropenem | Report results | Sensitive (≤ 0.5 µg/mL) |
| Metronidazole | Report results | Sensitive (2 µg/mL) |
| Mezlocillin | Report results | 32 µg/mL |
| Piperacillin | Report results | Sensitive (16 µg/mL) |
| Piperacillin/Tazobactam | Report results | Sensitive (≤ 0.25 µg/mL) |
| Tetracycline | Report results | > 8 µg/mL[6] |
| **Genotypic Analysis** | | |
| Sequencing of 16S ribosomal RNA gene (~ 710 base pairs) | ≥ 99% sequence identity to *B. fragilis*, strain CL07T12C05 (GenBank: AGXN01000030.1) | 100% sequence identity to *B. fragilis*, strain CL07T12C05 (GenBank: AGXN01000030.1) |
| **Purity (post-freeze)** | | |
| Anaerobic growth[7] | Consistent with expected colony morphology | Consistent with expected colony morphology |
| Aerobic growth[8] | No growth | No growth |
| **Viability (post-freeze)[3]** | Growth | Growth |

[1]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.

[2]*B. fragilis*, strain CL07T12C05 was deposited by Laurie E. Comstock, Ph.D., Associate Microbiologist, Department of Medicine, Channing Laboratory, Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts, USA. HM-710 lot 70008329 was produced by inoculation of BEI Resources HMS-710 lot 62323792 into Modified Reinforced Clostridial broth and incubated for 3 days at 37°C in an anaerobic atmosphere (< 5% $O_2$; Remel™ Pack-Anaero™). The material from the initial growth was passaged once in Modified Reinforced Clostridial broth for 3 days at 37°C in an anaerobic atmosphere to produce this lot.

[3]3 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

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

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

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

[7]Purity of this lot was assessed for 7 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.

[8]Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% $CO_2$ on Tryptic Soy agar with 5% defibrinated sheep blood.

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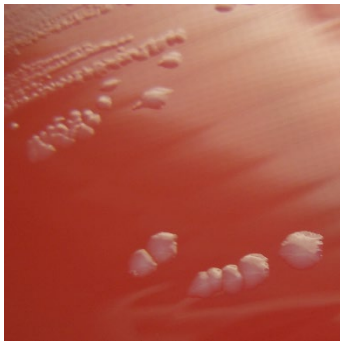
**Figure 1: Colony Morphology**



/Heather Couch/
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