b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

# Certificate of Analysis for HM-1032

## *Blautia* sp., Strain KLE 1732

## Catalog No. HM-1032

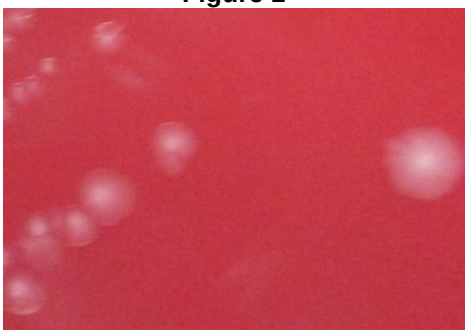
**Product Description:** *Blautia* sp., strain KLE 1732 was isolated on March 20, 2012, from a human fecal sample from an anonymous healthy male donor in Boston, Massachusetts, USA.

**Lot[1,2]: 63140991** **Manufacturing Date: 24JAN2015**

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| **Phenotypic Analysis** | | |
| Cellular morphology | Report results | Gram variable pleomorphic coccobacilli[3] |
| Colony morphology[4] | Report results | Irregular, flat, undulate, opaque and gray (Figure 1) |
| Motility (wet mount) | Report results | Non-motile |
| **Genotypic Analysis** | | |
| Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs) | ≥ 99% identical to GenBank: AWSY01000222 (*Blautia* sp., strain KLE 1732) | ≥ 99% identical to GenBank: AWSY01000222 (*Blautia* sp., strain KLE 1732) |
| **Purity (post-freeze)** | | |
| Anaerobic growth[5] | Growth consistent with *Blautia* sp. | Growth consistent with *Blautia* sp. |
| Aerobic growth[6] | No growth | No growth |
| **Viability (post-freeze)[4]** | 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]*Blautia* sp., strain KLE 1732 was deposited by Kim Lewis, Professor, Department of Biology, Northeastern University, Boston, Massachusetts, USA. HM-1032 was produced by inoculation of the deposited material into Modified Reinforced Clostridial broth which was incubated for 67 hours at 37°C in an anaerobic atmosphere (< 5% $O_2$; Remel™ Pack-Anaero™). The material from the initial growth was passaged once on Fastidious Anaerobe agar for 98 hours at 37°C in an anaerobic atmosphere. After a hold for 2 days at room temperature in an anaerobic atmosphere, colonies were suspended in Modified Reinforced Clostridial broth and passaged twice at 37°C in an anaerobic atmosphere for 25 and 46 hours, respectively, to produce this lot.
[3]*Lachnospiraceae* species have a structurally Gram-positive cell wall but some strains have been reported to stain Gram-variable or Gram-negative depending on duration of growth. For additional information, please refer to Rainey, F. A. "Family V. *Lachnospiraceae* fam. nov." Bergey's Manual of Systematic Bacteriology. Vol 3. 2nd Ed. New York: Springer, 2009. 921.
[4]3 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood
[5]Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an anaerobic atmosphere.
[6]Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere with 5% $CO_2$.

**Figure 1**



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# Certificate of Analysis for HM-1032

**Date:** 19 MAY 2015 **Signature:**

BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.



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