b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for HM-1038

Clostridium bolteae, Strain CC43_001B

Catalog No. HM-1038

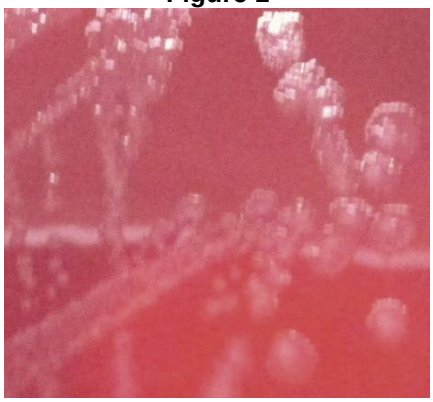
Product Description: *Clostridium bolteae*, strain CC43_001B was isolated in October 2010 from colonic biopsy tissue of a human subject in Victoria, British Columbia, Canada.

Lot[1,2]: 63266129 **Manufacturing Date: 19FEB2015**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive rods	Gram-negative rods[3]
Colony morphology[4]	Report results	Irregular, flat, undulate, rough and gray (Figure 1)
Motility (wet mount)	Report results	Motile
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1440 base pairs)	≥ 99% identical to depositor's sequence Consistent with *C. bolteae*	≥ 99% identical to depositor's sequence Consistent with *C. bolteae*
Purity (post-freeze)		
Anaerobic growth[5]	Growth consistent with *C. bolteae*	Growth consistent with *C. bolteae*
Aerobic growth[6]	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]*C. bolteae*, strain CC43_001B was deposited by Professor Emma Allen-Vercoe, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada. The deposited material was inoculated into Modified Reinforced Clostridial broth and incubated for 41 hours at 37°C in an anaerobic atmosphere (< 5% O_2; Remel™ Pack-Anaero™). Broth inoculum was used to inoculate a Tryptic Soy agar with 5% sheep blood plate and grown for 41 hours at 37°C in an anaerobic atmosphere. Colonies from the plates were scraped Modified Reinforced Clostridial broth and passaged twice in at 37°C in an anaerobic atmosphere for 93 and 44 hours, respectively, to produce this lot.
[3]*Clostridium bolteae* is a Gram-positive organism; however, some species of *Clostridium* which have Gram-positive cell walls will stain Gram-negative or Gram-variable when older cultures (> 24 hours) are used for staining. For additional information, please refer to Beveridge, T. J. "Mechanism of Gram Variability in Select Bacteria." J. Bacteriol. 172 (1990): 1609-1620. PubMed: 1689718.
[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 in an anaerobic atmosphere for 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood.
[6]Purity of this lot was assessed in an aerobic atmosphere with 5% CO_2 for 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1



BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

Certificate of Analysis for HM-1038

Date: 20 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.

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898