

***Clostridium bolteae*, Strain WAL-14578**

**Catalog No. HM-318**

**Product Description:**

*Clostridium bolteae* (*C. bolteae*), strain WAL-14578 was isolated from the stool of an autistic male child. HM-318 was produced by inoculation of BEI Resources seed lot 60110260 into Modified Chopped Meat broth and grown for 3 days at 37°C in an anaerobic atmosphere. Broth inoculum was added to Modified Chopped Meat broth, which was grown for 2 days at 37°C in an anaerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

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: 70036700**

**Manufacturing Date: 01JUL2020**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology <sup>1</sup> 3 days at 37°C in an anaerobic atmosphere in Tryptic Soy agar with 5% defibrinated sheep blood Colony morphology 3 days at 37°C in an anaerobic atmosphere in Tryptic Soy agar with 5% defibrinated sheep blood Motility (wet mount)	Report results  Report results  Report results	Gram-negative rod  Circular, convex, undulate, smooth and gray (Figure 1)  Motile
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA (rRNA) gene (~ 1390 base pairs)	≥ 99% identical to <i>C. bolteae</i> , strain WAL-14578 (GenBank: ADLI01000057.1)	99.9% identical to <i>C. bolteae</i> , strain WAL-14578 (GenBank: ADLI01000057.1)
<b>Purity (post-freeze)</b> Anaerobic 7 days at 37°C in an anaerobic atmosphere in Tryptic Soy agar with 5% defibrinated sheep blood Aerobic 7 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> in Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology  Report results	Growth consistent with expected colony morphology  No growth
<b>Viability (post-freeze)</b> 3 days at 37°C in an anaerobic atmosphere in Tryptic Soy agar with 5% defibrinated sheep blood	Growth	Growth

<sup>1</sup>In Clostridial cultures, a decrease in peptidoglycan thickness occurs during growth, thus aged cultures may stain Gram-negative or Gram-variable (Beveridge, T. J. "Mechanism of Gram Variability in Select Bacteria." *J. Bacteriol.* 172 (1990): 1609-1620. PubMed: 1689718.).

**Figure 1: Colony Morphology**



/Heather Couch/

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