

***Clostridium symbiosum*, Strain WAL-14163**

Catalog No. HM-309

Product Description: *Clostridium symbiosum* (*C. symbiosum*), strain WAL-14163 was isolated from the stool of a male child with autism.

Lot^{1,2}: 70005125

Manufacturing Date: 18MAY2017

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ⁴ Motility (wet mount)	Report results Report results Report results	Gram-negative rod ³ Punctiform, translucent and gray (Figure 1) Motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 830 base pairs)	≥ 99% sequence identity to <i>C. symbiosum</i> , strain WAL-14163 (GenBank: ADLQ01000114.1)	100% sequence identity to <i>C. symbiosum</i> , strain WAL-14163 (GenBank: ADLQ01000114.1)
Purity (post-freeze) Anaerobic growth ⁵ Aerobic growth ⁶	Consistent with expected colony morphology Report results	Consistent with expected colony morphology No growth
Viability (post-freeze)⁴	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*C. symbiosum*, strain WAL-14163 was deposited by Emma Allen-Vercoe, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada. Lot 70005125 of HM-309 was produced by inoculation of BEI Resources HMS-309 (Lot: 60110259) into Modified Chopped Meat medium and incubated for 2 days at 37°C in an anaerobic atmosphere (< 0.5% O₂; Remei™ AnaeroPack®-Anaero). The material from the initial growth was passaged once in Modified Chopped Meat medium for 1 day at 37°C in an anaerobic atmosphere to produce this lot.

³*C. symbiosum*, strain WAL-14163 is characterized as Gram-positive, but the published literature for this species shows that it often displays a Gram-negative phenotype. For more information, please refer to Elsayed, S. and K. Zhang. "Bacteremia Caused by *Clostridium symbiosum*." *J. Clin. Microbiol.* 42 (2004): 4390-4392. PubMed: 15365052 and Johnson, M. J., E. Thatcher and M. E. Cox. "Techniques for Controlling Variability in Gram Staining of Obligate Anaerobes." *J. Clin. Microbiol.* 33 (1995): 755-758. PubMed: 7538512.

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

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

⁶Purity 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



Certificate of Analysis for HM-309

Date: 12 SEP 2017

Signature:



BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by ATCC® 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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