

***Clostridium orbiscindens*, Strain CC43_001K**

Catalog No. HM-1044

Product Description: *Clostridium orbiscindens* (*C. orbiscindens*), strain CC43_001K was isolated in October 2010 from colonic biopsy tissue of a human subject in Victoria, British Columbia, Canada.

Lot^{1,2}: 63585540

Manufacturing Date: 07JUL2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ⁴ Motility (wet mount)	Gram-variable rods Report results Report results	Gram-negative rods ³ (Figure 1) Irregular, flat, undulate, and gray (Figure 2) Non-motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% identical to depositor's sequence Consistent with <i>C. orbiscindens</i>	≥ 99% identical to depositor's sequence Consistent with <i>C. orbiscindens</i>
Purity (post-freeze) Anaerobic growth ⁵ Aerobic growth ⁶	Growth consistent with <i>C. orbiscindens</i> No growth	Growth consistent with <i>C. orbiscindens</i> 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. orbiscindens*, strain CC43_001K 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 media and incubated for 6 days at 37°C in an anaerobic atmosphere (< 5% O₂; Remel™ Pack-Anaero™). Broth inoculum was added to Modified Reinforced Clostridial broth bottles which were grown 1 day at 37°C in an anaerobic atmosphere to produce this lot.

³*C. orbiscindens* is published as Gram-variable [Carlier, J. P., et al. "Proposal to Unify *Clostridium orbiscindens* Winter et al. 1991 and *Eubacterium plautii* (Séguin 1928) Hofstad and Aasjord 1982, with Description of *Flavonifractor plautii* gen. nov., comb. nov., and Reassignment of *Bacteroides capillosus* to *Pseudoflavonifractor capillosus* gen. nov., comb. nov." *Int. J. Syst. Evol. Microbiol.* 60 (2010): 585-590. PubMed: 19654357.] however, multiple attempts consistently showed this strain was Gram-negative.

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

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

⁶Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Cellular Morphology

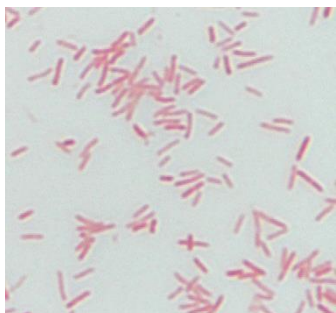
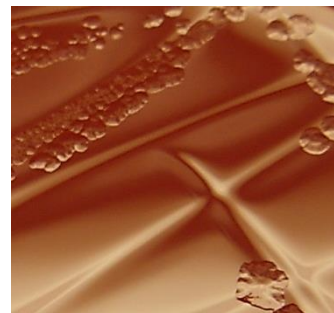


Figure 2: Colony Morphology



Certificate of Analysis for HM-1044

Date: 14 OCT 2015

Signature: 

BEI Resources Authentication

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