Certificate of Analysis for HM-315

Clostridium citroniae, Strain WAL-17108

Catalog No. HM-315

Product Description:

Clostridium citroniae (C. citroniae), strain WAL-17108 was isolated from the stool of an autistic boy. HM-315 was produced by inoculation of the BEI Resources seed lot into Modified Reinforced Clostridial broth and incubated for 3 days at 37°C in an anaerobic atmosphere. Broth inoculation was added to Modified Reinforced Clostridial broth, which was grown for 3 days at 37°C in an anaerobic atmosphere to produce this lot.

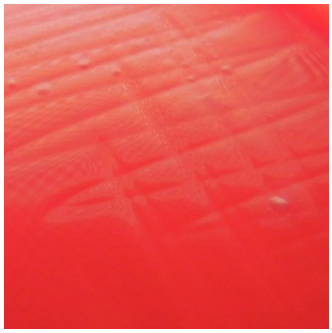
Note: Quality control of HMP material is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

Lot: 70031172 **Manufacturing Date: 09JAN2020**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology[1]	Report results	Gram-negative rod
Colony morphology 3 days at 37°C in an anaerobic atmosphere in Modified Reinforced Clostridial broth	Report results	Irregular, slightly peaked, undulate, rough and gray (Figure 1)
Motility (wet mount)	Report results	Motile
Genotypic Analysis		
Sequencing of 16S ribosomal RNA (rRNA) gene (~ 1400 base pairs)	≥ 99% identical to *C. citroniae*, strain WAL-17108 (GenBank: ADLJ01000059)	99.7% identical to *C. citroniae*, strain WAL-17108 (GenBank: ADLJ01000059)
Purity (post-freeze)		
Anaerobic 7 days at 37°C in an anaerobic atmosphere in Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Aerobic 7 days at 37°C in an aerobic atmosphere in Tryptic Soy agar with 5% defibrinated sheep blood	Report results	No growth
Viability (post-freeze) 3 days at 37°C in an anaerobic atmosphere in Modified Reinforced Clostridial broth	Growth	Growth

[1]*C. citroniae* is characterized as Gram-positive, however, the published literature for this species shows that it often displays a Gram-negative phenotype (Warren, Y. A., et al. "*Clostridium aldenense* sp. nov. and *Clostridium citroniae* sp. nov. Isolated from Human Clinical Infections." J. Clin. Microbiol. 44 (2006): 2416-2422. PubMed: 16825358.).

Figure 1: Colony Morphology



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/Heather Couch/
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Program Manager or designee, ATCC Federal Solutions

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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