Certificate of Analysis for NR-13432

Clostridioides difficile, Isolate 6

Catalog No. NR-13432

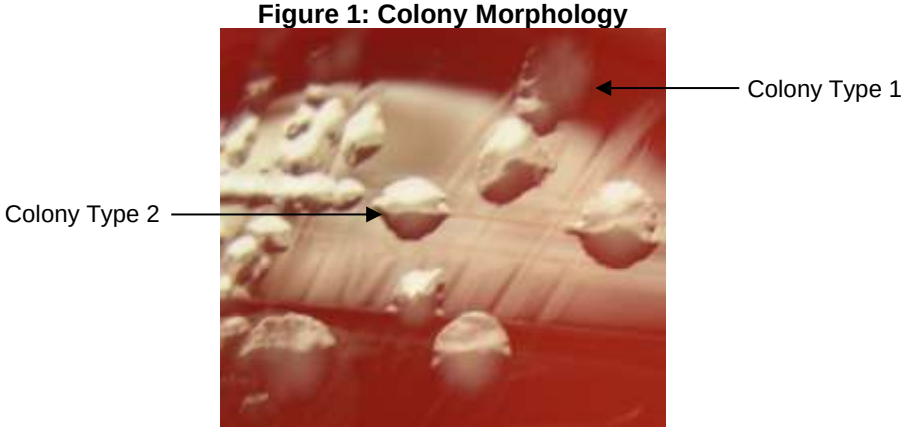
Product Description: *Clostridioides difficile (C. difficile)*, isolate 6 was isolated from a human patient from the Mid-Atlantic region of the United States in 2008/2009. Previously referred to as *Clostridium difficile*, this genus has been reclassified and the genus designation on the vial label refers to the old nomenclature.

Lot[1]: 59147484 **Manufacturing Date: 03JUN2010**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis[2]		
Cellular morphology	Gram-positive rods	Gram-positive rods
Colony morphologies[3,4]	Report results	Colony type 1: Irregular, flat, undulate, opaque and gray (Figure 1) Colony type 2: Irregular, flat, undulate, opaque and white (Figure 1)
Obligate Anaerobe	Positive	Positive
Hemolysis[4]	Report results	Non-hemolytic
Chartreuse fluorescence on anaerobic blood agar[4]	Positive	Positive
Biochemical tests:		
RapID™ ANA II Panel	Consistent with *C. difficile*	Consistent with *C. difficile*
Esculin hydrolysis	Positive	Positive
Gelatin hydrolysis	Positive	Positive
Genotypic Analysis		
Sequencing of 16S Ribosomal RNA Gene (~ 1400 base pairs)	Consistent with *C. difficile*	Consistent with *C. difficile*
Viability (post-freeze)[4]	Growth	Growth

[1]The deposited material was inoculated into Modified Reinforced Clostridial broth and incubated for 2 days at 37°C in an anaerobic atmosphere (80% N_2:10% CO_2:10% H_2). The material from the initial growth was passaged three times in Modified Reinforced Clostridial broth at 37°C in an anaerobic atmosphere. NR-13432 was produced from the fourth passage.
[2]Specifications described in Holdeman, L. V., E. P. Cato and W. E. C. Moore, Eds. Anaerobe Laboratory Manual. 4th ed., Blacksburg: Virginia Polytechnic Institute and State University, 1977.
[3]Two colony types were observed. Plating of the individual colony types showed that they reverted to the mixed colony type. The 16S gene of each colony type was sequenced and determined to be 100% identical.
[4]2 days at 37°C in an anaerobic atmosphere on CDC Anaerobic Blood agar

Figure 1: Colony Morphology



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

Certificate of Analysis for NR-13432

/Heather Couch/
Heather Couch 04 JUN 2019
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.

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