

***Clostridium difficile*, Strain P19**

Catalog No. NR-32895

Product Description: *Clostridium difficile* (*C. difficile*), strain P19 is a toxigenic strain obtained in 2005 from fecal material of a human patient with a relapsing *C. difficile* infection in western Pennsylvania, USA.

Lot¹: 62082891

Manufacturing Date: 18OCT2013

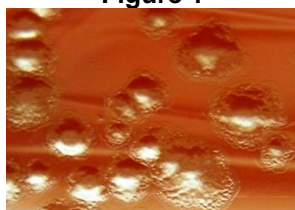
TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Hemolysis ² Biochemical tests: Remel RapID™ ANA II Panel Esculin hydrolysis Gelatin hydrolysis	Gram-positive rods Report results Report results Consistent with <i>C. difficile</i> Positive Positive	Gram-positive rods Irregular, umbonate, undulate, rough and gray (Figure 1) Non-hemolytic Consistent with <i>C. difficile</i> Positive Positive
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1450 base pairs)	Consistent with <i>C. difficile</i>	Consistent with <i>C. difficile</i> ³
Viability (post-freeze)²	Growth	Growth

¹NR-32895 was produced by inoculation of the deposited material into Modified Reinforced Clostridial medium and incubated for 48 hours at 37°C in an anaerobic atmosphere (> 0.5% O₂; Remel™ Anaero Pack-Anaero™ R681001). The material from the initial growth was grown in Modified Reinforced Clostridial medium at 37°C for 47 hours in an anaerobic atmosphere to produce this lot. Purity of this lot was assessed for 7 days under propagation conditions.

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

³≥ 99% identical to GenBank: AVLW01000044 (*C. difficile*, strain P19)

Figure 1



Date: 04 JUN 2014

Signature:

Title: Technical Manager, BEI Authentication or designee

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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

