

# Certificate of Analysis for NR-32896

## *Clostridium difficile*, Strain P20

Catalog No. NR-32896

**Product Description:** *Clostridium difficile* (*C. difficile*), strain P20 is a toxigenic strain obtained in 2005 from fecal material of a human patient with a relapsing *C. difficile* infection in western Pennsylvania, USA.

Lot<sup>1</sup>: 62082890

Manufacturing Date: 11OCT2013

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Hemolysis <sup>2</sup> 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, flat, undulate, opaque and gray (Figure 1) Non-hemolytic  Consistent with <i>C. difficile</i> Positive Positive
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 760 base pairs)	Consistent with <i>C. difficile</i>	Consistent with <i>C. difficile</i>
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>NR-32896 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 (80% N<sub>2</sub>:20% CO<sub>2</sub>). The material from the initial growth was passaged once in Modified Reinforced Clostridial medium at 37°C for 48 hours in an anaerobic atmosphere to produce this lot. Purity of this lot was assessed for 7 days under propagation conditions.

<sup>2</sup>47 hours at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

Figure 1



Date: 25 JUL 2014

Signature:

Title:

Technical Manager, BEI Authentication or designee

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