

***Peptoclostridium difficile*, Strain CD178**

**Catalog No. NR-43504**

**Product Description:** *Peptoclostridium difficile* (*P. difficile*; also referred to as *Clostridium difficile*), strain CD178 is a non-toxigenic strain isolated in March 2010 from the stool of an asymptomatic patient in Ann Arbor, Michigan, USA.

**Lot<sup>1</sup>: 62910821**

**Manufacturing Date: 20OCT2014**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology <sup>2</sup> Colony morphology <sup>2</sup>  Hemolysis <sup>2</sup> Motility (wet mount) Biochemical tests: Esculin hydrolysis Gelatin hydrolysis VITEK <sup>®</sup> MS (MALDI-TOF)	Gram-positive rods Report results  Report results Report results  Positive Positive Consistent with <i>P. difficile</i>	Gram-positive rods Irregular, flat, undulate, rough and gray (Figure 1) Non-hemolytic Motile  Positive Positive Consistent with <i>P. difficile</i>
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1450 base pairs)	Consistent with <i>P. difficile</i>	Consistent with <i>P. difficile</i> <sup>3</sup>
<b>Purity (post-freeze)</b> Anaerobic growth <sup>4</sup> Aerobic growth <sup>5</sup>	Growth consistent with <i>P. difficile</i> No growth	Growth consistent with <i>P. difficile</i> No growth
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>NR-43504 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% O<sub>2</sub>; Remel™ Anaero Pack-Anaero™ R681001). The material from the initial growth was passaged once in Modified Reinforced Clostridial medium for 71 hours under propagation conditions to produce this lot.

<sup>2</sup>3 days on Tryptic Soy agar with 5% defibrinated sheep blood under propagation conditions

<sup>3</sup>≥ 99.7% identical to GenBank: AVIC01000042.1 (*P. difficile*, strain CD178)

<sup>4</sup>Purity of this lot was assessed for 10 days on Tryptic Soy agar with 5% defibrinated sheep blood under propagation conditions.

<sup>5</sup>Purity of this lot was assessed for 10 days on Tryptic Soy agar with 5% defibrinated sheep blood in an aerobic atmosphere with 5% CO<sub>2</sub>.

**Figure 1**



**Date:** 04 JUN 2015

**Signature:**

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