

***Peptoclostridium difficile*, Strain CD44**

Catalog No. NR-43552

Product Description: *Peptoclostridium difficile* (*P. difficile*; also referred to as *Clostridium difficile*), strain CD44 was isolated in February 2010 from the stool of a human patient diagnosed with an acute *Clostridium difficile* infection in Ann Arbor, Michigan, USA. **Note: The GenBank entry reports that strain CD44 is toxigenic. However, analysis of the genomic sequence indicates that the toxin genes are not present in strain CD44, which was confirmed by information provided by the depositor.**

Lot¹: 63303113

Manufacturing Date: 05FEB2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Hemolysis ² Motility (wet mount) Biochemical tests: Esculin hydrolysis Gelatin hydrolysis VITEK [®] 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, rugose and gray (Figure 1) Non-hemolytic Motile Positive Positive Consistent with <i>P. difficile</i>
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 780 base pairs)	Consistent with <i>P. difficile</i>	Consistent with <i>P. difficile</i> ³
Purity (post-freeze) Anaerobic growth ⁴ Aerobic growth ⁵	Growth consistent with <i>P. difficile</i> No growth	Growth consistent with <i>P. difficile</i> No growth
Viability (post-freeze)²	Growth	Growth

¹NR-43552 was produced by inoculation of the deposited material into Modified Reinforced Clostridial medium and incubated for 23 hours at 37°C in an anaerobic atmosphere (< 0.5% O₂; Remel™ Anaero Pack-Anaero™). The material from the initial growth was passaged once in Modified Reinforced Clostridial medium for 18 hours under propagation conditions to produce this lot.

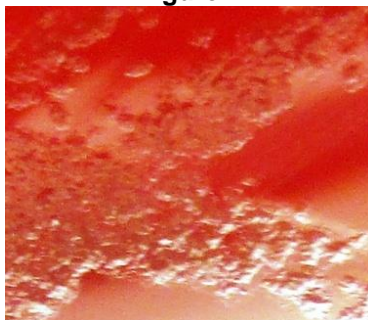
²24 hours on Tryptic Soy agar with 5% defibrinated sheep blood under propagation conditions

³≥ 99.9% identical to GenBank: AVGX010000021.1 (*P. difficile*, strain CD44)

⁴Purity of this lot was assessed for 8 days on Tryptic Soy agar with 5% defibrinated sheep blood under propagation conditions.

⁵Purity of this lot was assessed for 8 days on Tryptic Soy agar with 5% defibrinated sheep blood in an aerobic atmosphere with 5% CO₂.

Figure 1



Date: 16 APR 2015

Signature: 

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