

***Clostridioides difficile*, Strain P1**

Catalog No. NR-32882

Product Description:

Clostridioides difficile (*C. difficile*), strain P1 is a toxigenic strain obtained in 2001 from fecal material of a human patient with a relapsing *C. difficile* infection in western Pennsylvania, USA. Previously referred to as *Clostridium difficile*, this genus has been reclassified and the genus designation on the vial label refers to the old nomenclature. NR-32882 was produced by inoculation of the BEI Resources seed lot 61600076 into Modified Reinforced Clostridial medium and grown for 3 days at 37°C in an anaerobic atmosphere (< 5% O₂; Remel™ Pack-Anaero™). Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood agar kolles, which were grown for 2 days at 37°C in an anaerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70064575

Manufacturing Date: 08NOV2023

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology 3 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood Motility (wet mount) Biochemical tests Gelatin hydrolysis ² Esculin hydrolysis ² VITEK® MS (MALDI-TOF)	Gram-positive rods Report results Report results Positive Positive <i>C. difficile</i>	Gram-positive rods Irregular, low convex, undulate, smooth and gray ¹ Non-motile Positive Positive <i>C. difficile</i> (96%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1390 base pairs)	≥ 99% sequence identity to <i>C. difficile</i> , type strain (GenBank: AB075770.1)	99% sequence identity to <i>C. difficile</i> , type strain (GenBank: AB075770.1)
Purity Anaerobic 10 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood Aerobic with 5% CO ₂ 10 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood	Report results Report results	Growth consistent with expected colony morphology No growth
Viability 3 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood	Growth	Growth

¹Two colony types were observed. VITEK® MS (MALDI-TOF) analysis identified bacteria from both colony types as *C. difficile*.

²Tests were assessed after 7 days at 37°C in an anaerobic atmosphere.

/Sonia Bjorum Brower/

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10 JAN 2024

Technical Manager or designee, ATCC Federal Solutions

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