Certificate of Analysis for HM-993

Fusobacterium nucleatum, Strain CTI-02

Catalog No. HM-993

Product Description:

Fusobacterium nucleatum (F. nucleatum), strain CTI-02 was isolated in 2012 from colonic tumor tissue from a human patient with colorectal carcinoma in Massachusetts, USA. HM-993 lot 70043166 was produced by the inoculation of BEI Resources seed lot 63140959 into Modified Chopped Meat broth and incubated for 2 days at 37°C in an anaerobic atmosphere (< 5% O_2; Remel™ Pack-Anaero™). The material from the initial growth was passaged once in Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown for 2 days at 37°C in an anaerobic atmosphere to produce this lot.

Note: Quality control of HMP material is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

Lot: 70043166 **Manufacturing Date: 09APR2021**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology 2 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood	Gram-negative rods	Gram-negative rods
Colony morphology 2 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1420 base pairs)	≥ 99% sequence identity to *F. nucleatum*, strain CTI-02 (GenBank: AXNY01000032.1)	99.9% sequence identity to *F. nucleatum*, strain CTI-02 (GenBank: AXNY01000032.1)
Purity (post-freeze)		
Anaerobic 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Aerobic with 5% CO_2 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood	No growth	No growth
Viability (post-freeze) 2 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood	Growth	Growth

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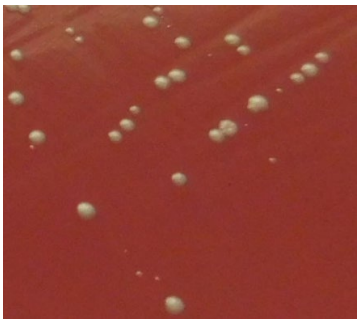
Certificate of Analysis for HM-993

Figure 1: Colony Morphology



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Heather Couch 20 DEC 2021
Program Manager or designee, ATCC Federal Solutions

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