

Certificate of Analysis for HM-36D

Genomic DNA from *Clostridium* sp., Strain 7_2_43FAA

Catalog No. HM-36D

Product Description: Genomic DNA was obtained from a preparation of *Clostridium* sp., strain 7_2_43FAA. *Clostridium* sp., strain 7_2_43FAA was isolated from biopsy tissue from the transverse colon of a patient with active Crohn's disease in Calgary, Alberta, Canada in 2007.

Lot¹: 59476602

Manufacturing Date: 08NOV2010

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1390 base pairs)	≥ 99% identical to depositor's sequence Consistent with <i>Clostridium</i> sp.	≥ 99% identical to depositor's sequence Consistent with <i>Clostridium</i> sp.
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen[®] Measurement	0.7 to 1.5 µg in 25 to 100 µL per vial	0.9 µg in 31 µL per vial (28 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.0	1.9
Bacterial Inactivation 5% of total yield plated on Tryptic Soy Agar with 5% defibrinated sheep blood ^{2,3}	No viable bacteria detected	No viable bacteria detected

¹The bacterial preparation used for extraction of genomic DNA was produced by Modified Reinforced Clostridial Broth (ATCC medium 2107) culture of the deposited material. After incubation for 24 hours at 37°C in an anaerobic atmosphere (80% N₂:10% CO₂:10% H₂), genomic DNA was extracted using proprietary technology.

²7 days at 37°C in an anaerobic atmosphere

³An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.

Date: 03 FEB 2011

Signature:



Title:

Technical Manager, BEI Authentication or designee

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