

## 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.

Lot<sup>1</sup>: 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
OD <sub>260</sub> /OD <sub>280</sub> Ratio	1.7 to 2.0	1.9
Bacterial Inactivation 5% of total yield plated on Tryptic Soy Agar with 5% defibrinated sheep blood <sup>2,3</sup>	No viable bacteria detected	No viable bacteria detected

<sup>&</sup>lt;sup>1</sup>The 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% N<sub>2</sub>:10% CO<sub>2</sub>:10% H<sub>2</sub>), genomic DNA was extracted using proprietary technology.

**Date:** 03 FEB 2011 **Signature:** 

**Title:** Technical Manager, BEI Authentication or designee

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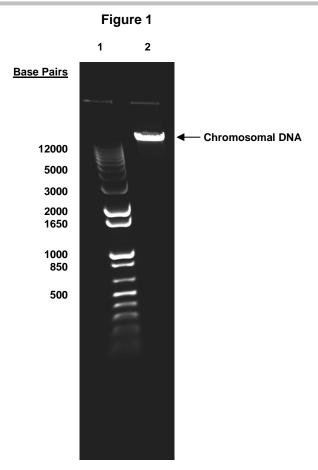
Fax: 703-365-2898

<sup>&</sup>lt;sup>2</sup>7 days at 37°C in an anaerobic atmosphere

<sup>&</sup>lt;sup>3</sup>An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.



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Lane 1: Invitrogen™ Tracklt 1 Kb Plus DNA Ladder™ Lane 2: 200 ng of HM-36D

HM-36D\_59476602\_03FEB2011

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