b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-2713

Genomic DNA from *Clostridium botulinum*, Strain Walls 8G (VPI 4404)

Catalog No. NR-2713

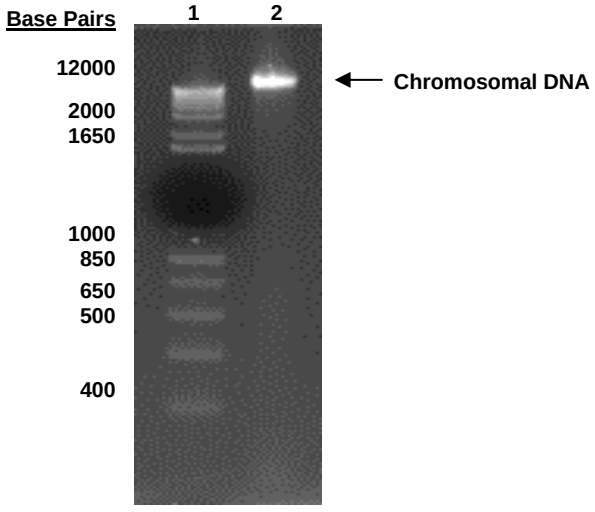
Product Description: Genomic DNA was isolated from a preparation of *Clostridium botulinum (C. botulinum)*, strain Walls 8G (VPI 4404, BL 4851), serotype F (proteolytic).

Lot[1]: 63360140 **Manufacturing Date: 15JUL2015**

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1290 base pairs)	≥ 99% sequence identity to *C. botulinum,* strain Walls 8G (GenBank: LBFH01000001)	99.8% sequence identity to *C. botulinum,* strain Walls 8G (GenBank: LBFH01000001)
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	1.2 µg in 81 µL per vial (15 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
OD_{260}/OD_{280} Ratio	1.7 to 2.1	2.0
Bacterial Inactivation 10% of total yield plated on agar for 7 days[2]	No viable bacteria detected	No viable bacteria detected

[1]The bacterial preparation used for extraction of genomic DNA was produced from BEI Resources NR-272 lot 7364651. Genomic DNA was extracted using proprietary technology, and is provided in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH ~ 8.0).
[2]An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt 1 Kb Plus DNA Ladder™
Lane 2: 200 ng of NR-2713

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/Heather Couch/
Heather Couch 21 AUG 2018
Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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