Certificate of Analysis for NR-50386

Genomic DNA from *Aspergillus fumigatus*, Strain B6081

Catalog No. NR-50386

Product Description:

Genomic DNA was extracted from *Aspergillus fumigatus*, strain B6081, which is an environmental isolate obtained in 2002 in Montréal, Québec, Canada. The fungal preparation used for extraction of genomic DNA was produced from a culture of BEI Resources NR-35312 lot 62486470. Genomic DNA was extracted using proprietary technology and is provided in 10 mM Tris-HCl, 1 mM EDTA, pH ~ 8.

Lot: 70004182 **Manufacturing Date: 21MAY2019**

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TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® Measurement	0.2 µg to 3.5 µg in 20 to 200 µL/vial	1.6 µg in 23 µL/vial (67.6 µg/mL)
Amount per Vial	0.2 µg to 3.5 µg	1.6 µg
Genotypic Analysis Sequencing of partial 18S ribosomal RNA (rRNA) gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 28S rRNA (~ 710 base pairs)	≥ 99% sequence identity to *A. fumigatus* reference strain (GenBank: HQ026746.1)	100% sequence identity to *A. fumigatus* reference strain (GenBank: HQ026746.1)
Functional Activity by PCR Amplification[1] ITS 1, 5.8S rRNA gene, ITS 2	~ 1200 base pair amplicon	~ 1200 base pair amplicon
OD_{260}/OD_{280} Ratio	1.7 to 2.1	2.1
Fungal Inactivation 10% of total DNA yield inoculated on Emmons' Modification of Sabouraud Dextrose agar and incubated for 14 days at 26°C in an aerobic atmosphere	No viable organisms detected	No viable organisms detected

[1]Primer sequences and conditions for PCR are available upon request.

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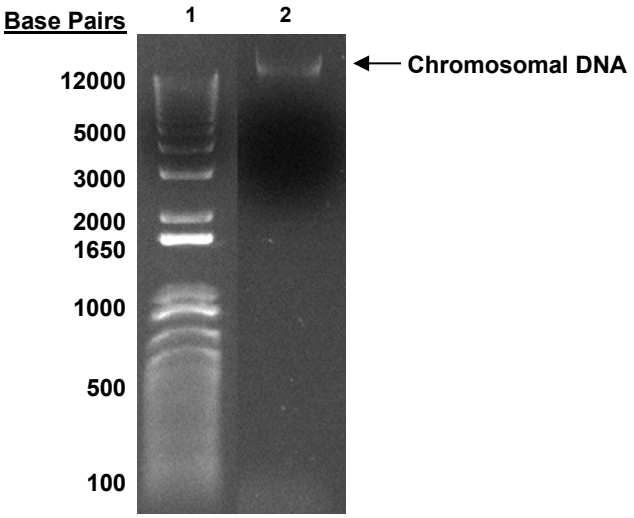
Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-50386

/Sonia Bjorum Brower/
Sonia Bjorum Brower 13 MAY 2026
Technical Manager or designee, ATCC Federal Solutions

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