

Genomic DNA from *Cryptococcus neoformans*, Isolate 1

Catalog No. NR-50378

Product Description:

Genomic DNA was extracted from a preparation of *Cryptococcus neoformans* (*C. neoformans*), isolate 1, which was isolated in 2011 from human cerebrospinal fluid in China. NR-50378 lot 70004164 was extracted from a preparation of BEI Resources NR-41291 lot 61680506 using proprietary technology and vialled in 10 mM Tris-HCl, 1 mM EDTA, pH 8.

Lot: 70004164

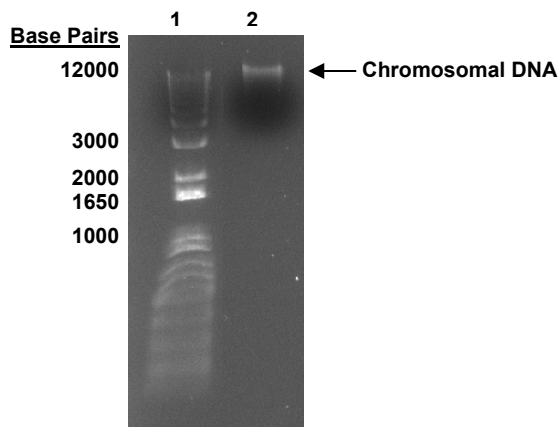
Manufacturing Date: 09JUL2019

TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® Measurement	Report results	0.7 µg in 87 µL per vial (7.8 µg per mL)
Amount per Vial	0.2 to 3.5 µg	0.7 µg
Genotypic Analysis Sequencing of 18S ribosomal RNA (rRNA) gene (~ 960 base pairs) Sequencing of 28S rRNA gene (~ 1180 base pairs)	≥ 99% sequence identity to <i>C. neoformans</i> type strain (GenBank: CP003821.1) ≥ 99% sequence identity to <i>C. neoformans</i> type strain (GenBank: CP003821.1)	99.9% sequence identity to <i>C. neoformans</i> type strain (GenBank: CP003821.1) 100% sequence identity to <i>C. neoformans</i> type strain (GenBank: CP003821.1)
Functional Activity by PCR Amplification¹ 18S rRNA gene	~ 1200 base pair amplicon	~ 1200 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	1.9
Fungal Inactivation 10% of total yield inoculated in medium ²	No viable organisms detected	No viable organisms detected

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

²Incubated for 14 days at 25°C in an aerobic atmosphere in Yeast Mold agar.

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: ~ 200 ng of NR-50378

/Heather Couch/

Heather Couch

16 NOV 2021

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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

