

Genomic DNA from *Candida albicans*, Strain P78048

Catalog No. NR-50310

Product Description: Genomic DNA was extracted from a preparation of *Candida albicans* (*C. albicans*), strain P78048. *C. albicans*, strain P78048 is a bloodstream isolate from a person with a bloodstream infection collected in Manitoba, Canada in 2000.

Lot^{1,2}: 64158565

Manufacturing Date: 27FEB2017

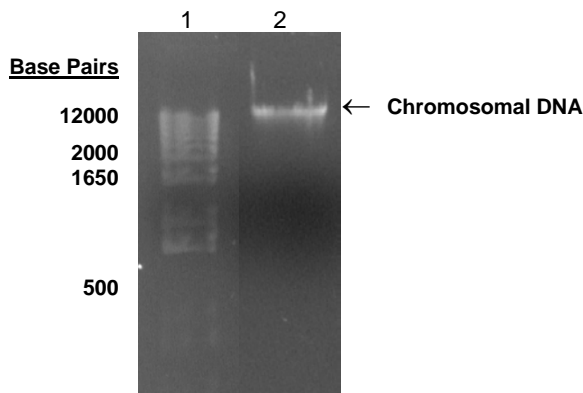
TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Partial 18S ribosomal RNA (rRNA) gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 28S rRNA (~ 530 base pairs) D1D2 region of the 28S rRNA gene (~ 590 base pairs)	≥ 99% sequence identity to <i>C. albicans</i> type strain (GenBank: HQ876043.1) ³ ≥ 99% sequence identity to <i>C. albicans</i> type strain (GenBank: HQ876051.1) ³	99.8% sequence identity to <i>C. albicans</i> type strain (GenBank: HQ876043.1) 99.8% sequence identity to <i>C. albicans</i> type strain (GenBank: HQ876051.1)
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® Measurement	≥ 5 µg per vial	9.5 µg in 140 µL per vial
Functional Activity by PCR Amplification Ribosomal RNA and ITS region	~ 1200 base pair amplicon	~ 1200 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	1.8

¹The fungal preparation used for extraction of genomic DNA was produced from a culture of NRS-29434 lot 60842900. Genomic DNA was extracted using proprietary technology.

²NR-50310 lot 64158565, was vialled in Tris-HCl EDTA buffer (10 mM Tris-HCl, 1 mM EDTA, pH ~ 8.0).

³Genomic sequence of *C. albicans*, strain P78048 is available in GenBank, but does not contain the regions required for alignment.

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt 1 Kb Plus DNA Ladder™
 Lane 2: ~ 200 ng of NR-50310

/Heather Couch/
Heather Couch

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