b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-29434

Candida albicans, Strain P78048

Catalog No. NR-29434

Product Description:

Candida albicans (C. albicans), strain P78048 was isolated in 2000 from the bloodstream of a human in Winnipeg, Manitoba, Canada. *C. albicans*, strain P78048 is reported to be a member of genetic clade I with an alpha/alpha MTL genotype. NR-29434 was produced by inoculation of BEI Resources NR-29434 lot 60842872 onto Yeast Mold agar, which was grown for 2 days at 25°C in an aerobic atmosphere. The agar growth was harvested with 10% glycerol to produce this lot.

Lot: 70016187 **Manufacturing Date: 05JUL2018**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology (pre-freeze) 2 days at 25°C in an aerobic atmosphere on Yeast Mold agar	Report results	Subglobose to ovoid, in singles and pairs; no pseudohyphae observed (Figure 1)
Colony morphology (pre-freeze)	Report results	Butyrous, dull, matte and off-white (Figure 2)
CHROMagar™ Candida Testing[1]	Green colonies *(C. albicans)*	Green colonies *(C. albicans)*
Biochemical Tests		
VITEK® 2 (YST card)	*C. albicans* (≥ 89%)	*C. albicans* (99%)
VITEK® MS (MALDI-TOF)	*C. albicans*	*C. albicans* (99.9%)
Genotypic Analysis		
Sequencing of partial 18S ribosomal RNA (rRNA) gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 26S rRNA (~ 510 base pairs)	≥ 99% sequence identity to *C. albicans*, strain SC5314 (GenBank: CP017630.1)	100% sequence identity to *C. albicans*, strain SC5314 (GenBank: CP017630.1)
Sequencing of 28S rRNA gene (~ 610 base pairs)	≥ 99% sequence identity to *C. albicans*, strain SC5314 (GenBank: CP017630.1)	100% sequence identity to *C. albicans*, strain SC5314 (GenBank: CP017630.1)[2]
Purity[3]		
Nutrient broth with 0.1% Yeast Extract at 25°C	No bacterial growth	Non-turbid growth
Nutrient broth with 0.1% Yeast Extract at 37°C	No bacterial growth	Non-turbid growth
Viability (post-freeze)	Growth	Growth

[1]CHROMagar™ testing was performed on BEI Resources NR-29434 lot 60842872. CHROMagar™ displays high sensitivity and specificity for three of the major *Candida* species (Odds, F. C., and R. Bernarts. "CHROMagar Candida, a New Differential Isolation Medium for the Presumptive Identification of Clinically Important *Candida* species." J. Clin. Microbiol. 32 (1994): 1923-1929. PubMed: 7989544.).

[2]Also consistent with *C. africana*

[3]Clarity of broth was determined by visual inspection after 2 days in an aerobic atmosphere.

Figure 1: Cellular Morphology

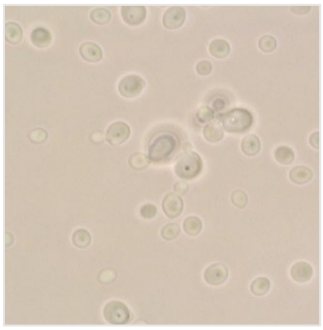

Figure 2: Colony Morphology

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/Heather Couch/
Heather Couch 10 MAR 2020
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.

Support Provided by NIAID

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NR-29434_70016187_10MAR2020