

Certificate of Analysis for NR-48776

Cryptococcus neoformans var. grubii, Strain YL99a

Catalog No. NR-48776

Product Description: *Cryptococcus neoformans (C. neoformans)* var. *grubii,* strain YL99α was derived from strain H99O, after passage in the rabbit model of central nervous system infection.

Lot¹: 63383710 Manufacturing Date: 24APR2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology ²	Report results	Circular yeast form cells, usually single (Figure 1A)
Colony morphology ²	Report results	Circular, convex, butyrous, shiny, smooth; entire margin (Figure 1B)
CGB agar characterization ³		
NR-48776	Yellow (no color change)	Yellow (no color change)
Positive control (<i>C. neoformans</i> ; ATCC [®] 32045™)	Yellow (no color change)	Yellow (no color change)
Negative control (C. gattii, ATCC® MYA-4563™)	Blue	Blue
Genotypic Analysis		
Sequencing of partial 18S ribosomal RNA (rRNA)	≥ 99% sequence identity to	99.5% sequence identity to
gene, internal transcribed spacer (ITS) 1, 5.8S	C. neoformans, strain H99	C. neoformans, strain H99
rRNA gene, ITS 2, partial 26S rRNA (~ 920 base pairs)	(GenBank: CP003821)	(GenBank: CP003821)
Sequencing of 26S rRNA gene (~ 610 base pairs)	≥ 99% sequence identity to	99.7% sequence identity to
	C. neoformans, strain H99	C. neoformans, strain H99
	(GenBank: CP003821)	(GenBank: CP003821)
Purity ⁴		
Nutrient broth with 0.1% Yeast Extract at 25°C	No bacterial growth	No bacterial growth
Nutrient broth with 0.1% Yeast Extract at 37°C	No bacterial growth	No bacterial growth
Viability (post-freeze) ²	Growth	Growth

¹NR-48776 was produced by inoculation of the deposited material onto Yeast Mold slants and grown 3 days at 30°C in an aerobic atmosphere. Cells were harvested from the slants with 20% glycerol to produce this lot.

⁴Clarity of broth was determined by visual inspection after 6 days in an aerobic atmosphere.

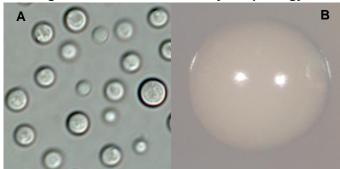


Figure 1: Cellular and Colony Morphology

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²3 days at 25°C in an aerobic atmosphere on Modified Sabouraud Dextrose medium

³2 days at 35°C in an aerobic atmosphere. CGB medium differentiates *C. gattii* from *C. neoformans* based on the ability of *C. gatti* isolates to grow in the presence of L-canavanine and to assimilate glycine as a sole carbon source, resulting in a blue color. *C. neoformans* isolates will remain yellow. [McTaggart, L., et al. "Rapid Identification of *Cryptococcus neoformans* var. *grubii*, *C. neoformans* var. *neoformans*, and *C. gattii* by Use of Rapid Biochemical Tests, Differential Media, and DNA Sequencing." <u>J. Clin. Microbiol.</u> 2011 (49): 2522-2527. PubMed: 21593254.]



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Date: 27 SEP 2016

Signature:

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