

Cryptococcus neoformans, Strain H99F

Catalog No. NR-48770

Product Description: *Cryptococcus neoformans* (*C. neoformans*), strain H99F was derived from strain H99O, after passage in the rabbit model of central nervous system infection.

Lot¹: 63383704

Manufacturing Date: 24APR2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology ² Colony morphology ² CGB agar characterization ³ NR-48770 Positive control (<i>C. neoformans</i> ; ATCC® 32045™) Negative control (<i>C. gattii</i> ; ATCC® MYA-4563™)	Report results Report results Yellow (no color change) Yellow (no color change) Blue	Circular yeast form cells, usually single (Figure 1A) Circular, convex, butyrous, shiny, smooth; entire margin (Figure 1B) Yellow (no color change) Yellow (no color change) Blue
Genotypic Analysis Sequencing of partial 18S ribosomal RNA (rRNA) gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 26S rRNA (~ 890 base pairs) Sequencing of 26S rRNA gene (~ 600 base pairs)	≥ 99% sequence identity to <i>C. neoformans</i> , strain H99 (GenBank: CP003821) ≥ 99% sequence identity to <i>C. neoformans</i> , strain H99 (GenBank: CP003821)	99.9% sequence identity to <i>C. neoformans</i> , strain H99 (GenBank: CP003821) 99.8% sequence identity to <i>C. neoformans</i> , strain H99 (GenBank: CP003821)
Purity⁴ Nutrient broth with 0.1% Yeast Extract at 25°C Nutrient broth with 0.1% Yeast Extract at 37°C	No bacterial growth No bacterial growth	No bacterial growth No bacterial growth
Viability (post-freeze)²	Growth	Growth

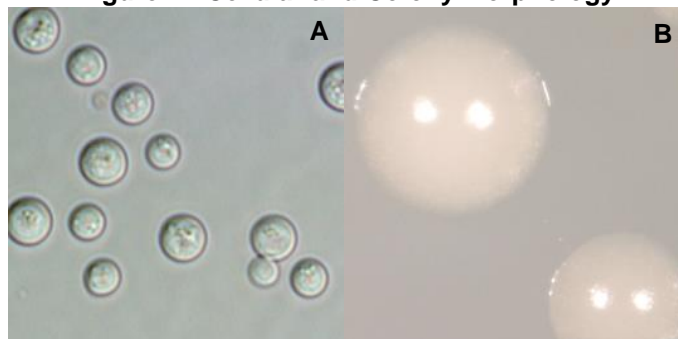
¹NR-48770 was produced by inoculation of the deposited material onto Yeast Mold slants and grown 3 days at 30°C in an aerobic atmosphere. Cells were harvested from the slants with 20% glycerol to produce this lot.

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. gattii* 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." *J. Clin. Microbiol.* 2011 (49): 2522-2527. PubMed: 21593254.]

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

Figure 1: Cellular and Colony Morphology



Certificate of Analysis for NR-48770

Date: 27 SEP 2016

Signature: 

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