

**Cryptococcus neoformans, Strain H99S**

**Catalog No. NR-48772**

**Product Description:** *Cryptococcus neoformans* (*C. neoformans*), strain H99S was derived from strain H99O, after passage in the rabbit model of central nervous system infection.

**Lot<sup>1</sup>: 63383706**

**Manufacturing Date: 30MAR2015**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology <sup>2</sup>  Colony morphology <sup>2</sup>  CGB agar characterization <sup>3</sup> NR-48772 Positive control ( <i>C. neoformans</i> ; ATCC <sup>®</sup> 32045 <sup>™</sup> ) Negative control ( <i>C. gattii</i> ; ATCC <sup>®</sup> MYA-4563 <sup>™</sup> )	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
<b>Genotypic Analysis</b> Sequencing of partial 18S ribosomal RNA (rRNA) gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 26S rRNA (~ 900 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)
<b>Purity<sup>4</sup></b> 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
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

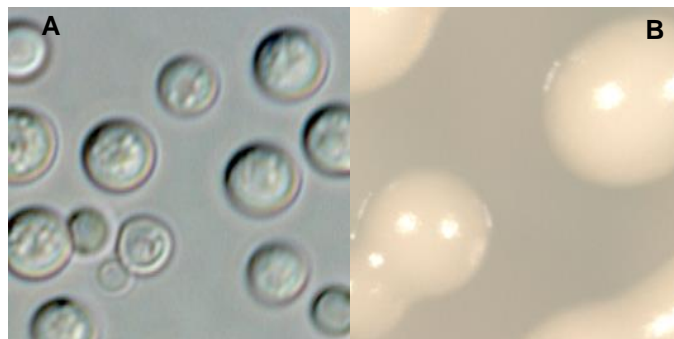
<sup>1</sup>NR-48772 was produced by inoculation of the deposited material onto Yeast Mold slants and grown 3 days at 30°C in an aerobic atmosphere. Cells were harvested from the slants with 20% glycerol to produce this lot.

<sup>2</sup>3 days at 25°C in an aerobic atmosphere on Modified Sabouraud Dextrose medium

<sup>3</sup>2 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.]

<sup>4</sup>Clarity 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-48772

**Date:** 27 SEP 2016

**Signature:** 

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