SUPPORTING INFECTIOUS DISEASE RESEARCH

Cryptococcus neoformans var. grubii, Strain YL99a

Catalog No. NR-48777

Product Description: *Cryptococcus neoformans (C. neoformans)* var. *grubii,* strain YL99a was derived from strain H99O, after passage in the rabbit model of central nervous system infection.

Lot¹: 63383711

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-48777 | 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 | 100% 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 (~ 1180 base pairs) | (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 |

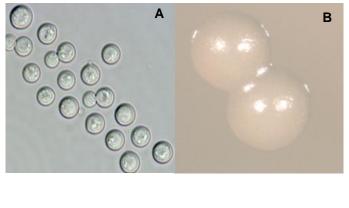
¹NR-48777 was produced by inoculation of the deposited material onto Yeast Mold slants and grown 3 days at 30°C in an aerobic atmosphere. Cells were harvested from the slants with 20% glycerol to produce this lot.

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. 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." 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



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Certificate of Analysis for NR-48777

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Date: 09 JAN 2017

BEI Resources Authentication

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