

Cryptococcus gattii, Strain VMGC3

Catalog No. NR-49164

Product Description: *Cryptococcus gattii* (*C. gattii*), strain VMGC3 was isolated from a cactus plant in Puerto Rico. Strain VMGC3 was deposited as lineage VGII, serotype B and mating type (MAT) α .

Lot¹: 63214409

Manufacturing Date: 24SEP2015

| TEST | SPECIFICATIONS | RESULTS |
|---|--|--|
| Phenotypic Analysis Cellular morphology ² Colony morphology ³ Canavanine-glycine-bromthymol blue (CGB) differential medium ⁴ | Report results Report results Report results | Budding with mother-daughter cells (Figure 1A) Circular, entire, mucoid, shiny and white (Figure 1B) Blue |
| Genotypic Analysis Sequencing of partial 18S rRNA gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 28S rRNA (~ 550 base pairs) Sequencing of 26S rRNA gene (~ 620 base pairs) | ≥ 99% sequence identity to <i>C. gattii</i> (GenBank: FJ914888.1) ≥ 99% sequence identity to <i>C. gattii</i> (GenBank: KC171326.1) | 100% sequence identity to <i>C. gattii</i> (GenBank: FJ914888.1) 100% sequence identity to <i>C. gattii</i> (GenBank: KC171326.1) |
| Purity⁵ 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-49164 was produced by inoculation of seed material onto modified Sabouraud Dextrose agar and incubated for 3 days at 25°C in an aerobic atmosphere. Yeast were harvested from agar plates with 20% glycerol.

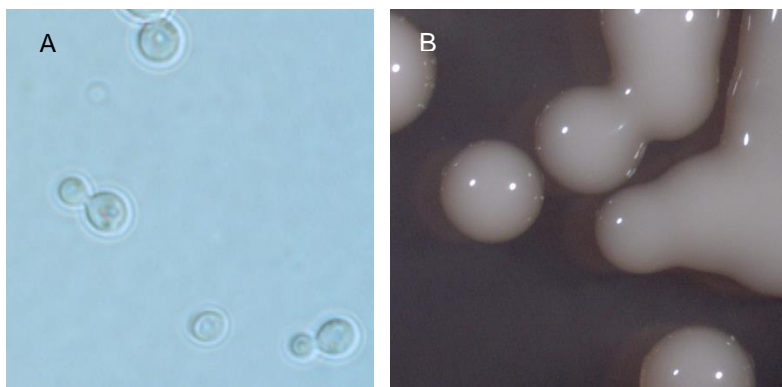
²3 days at 25°C in an aerobic atmosphere on modified Sabouraud Dextrose agar

³3 days at 25°C in an aerobic atmosphere on modified Sabouraud Dextrose agar

⁴3 days at 26°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 show yellow to light-green on CGB medium. [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.]

⁵Clarity of broth was determined by visual inspection after 3 days in an aerobic atmosphere.

Figure 1: Cellular and Colony Morphology



Certificate of Analysis for NR-49164

Date: 07 DEC 2016

Signature:



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