

Cryptococcus gattii, Strain C16

Catalog No. NR-50428

Product Description: *Cryptococcus gattii* (*C. gattii*), strain C16 was isolated from human cerebrospinal fluid in the Pacific Northwest region of North America. *C. gattii*, strain C16 was deposited as lineage VGI and resistant to azoles.

Lot¹: 2202

Manufacturing Date: 19DEC2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology ² Colony morphology ² Canavanine-glycine-bromthymol blue (CGB) differential medium ³	Report results Report results Report results	Subglobose or globose; single or budding (Figure 1A) Entire, smooth, mucoid and cream (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 (~ 520 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)	99.2% sequence identity to <i>C. gattii</i> (GenBank: FJ914888.1) 99.8% sequence identity to <i>C. gattii</i> (GenBank: KC171326.1)
Antimicrobial Susceptibility^{4,5} Fluconazole	Report MIC (µg/mL)	0.25 µg/mL to 0.38 µg/mL
Purity⁶ 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-50428 was produced by inoculation of the deposited material onto Yeast Mold agar and incubated for 5 days at 25°C in an aerobic atmosphere.

Cells were harvested from agar with 20% glycerol.

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

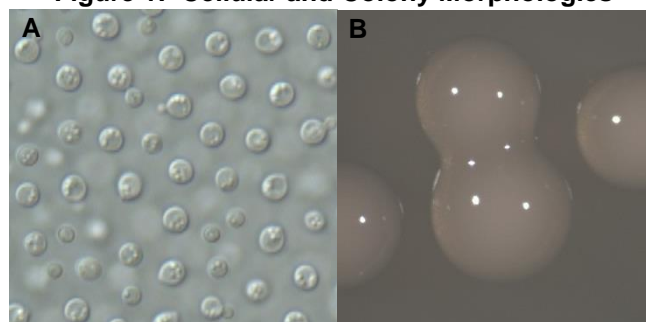
³2 days at 26°C in an aerobic atmosphere. CGB medium differentiates *C. gattii* from *C. neoformans* based on the ability of *C. gattii* isolates to grow in the presence of L-canavanine and to assimilate glycine as a sole carbon source, resulting in a blue color. *C. neoformans* isolates will show yellow 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.* 49 (2011): 2522-2527. PubMed: 21593254.].

⁴2 days at 35°C in an aerobic atmosphere on RPMI 1640 agar with MOPS and 2% glucose (Remel R04067)

⁵bioMérieux Etest® 510858

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

Figure 1: Cellular and Colony Morphologies



Certificate of Analysis for NR-50428

Date: 12 JUN 2017

Signature: 
BEI Resources Authentication

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