

**Cryptococcus gattii, Strain MIC16-C4**

**Catalog No. NR-50426**

**Product Description:** *Cryptococcus gattii* (*C. gattii*), strain MIC16-C4 was isolated from an unknown human source in the Pacific Northwest region of North America. *C. gattii*, strain MIC16-C4 was deposited as lineage VGI and resistant to azoles.

**Lot<sup>1</sup>: 2199**

**Manufacturing Date: 20DEC2016**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b>		
Cellular morphology <sup>2</sup>	Report results	Globose to lanceolate, budding and vacuoles (Figure 1A)
Colony morphology <sup>2</sup>	Report results	Circular, convex, entire and mucoid (Figure 1B)
Canavanine-glycine-bromthymol blue (CGB) differential medium <sup>3</sup>	Report results	Blue
<b>Genotypic Analysis</b>		
Sequencing of partial 18S rRNA gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 28S rRNA (~ 550 base pairs)	≥ 99% sequence identity to <i>C. gattii</i> (GenBank: FJ914888.1)	100% sequence identity to <i>C. gattii</i> (GenBank: FJ914888.1)
Sequencing of 26S rRNA gene (620 base pairs)	≥ 99% sequence identity to <i>C. gattii</i> (GenBank: KC171326.1)	100% sequence identity to <i>C. gattii</i> (GenBank: KC171326.1)
<b>Antimicrobial Susceptibility<sup>4,5</sup></b>		
Fluconazole	Report MIC (µg/mL)	6.0 µg/mL to 8.0 µg/mL
<b>Purity<sup>6</sup></b>		
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
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>NR-50426 was produced by inoculation of the deposited material onto Yeast Mold agar and incubated for 6 days at 25°C in an aerobic atmosphere.

Cells were harvested from agar with 20% glycerol.

<sup>2</sup>2 days at 25°C in an aerobic atmosphere on Yeast Mold agar

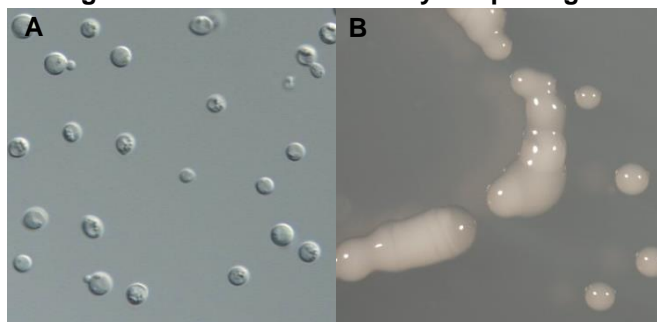
<sup>3</sup>5 days at 26°C in an aerobic atmosphere. CGB medium differentiates *C. gattii* from *C. neoformans* based on the ability of *C. gattii* isolates to grow in the presence of L-canavanine and to assimilate glycine as a sole carbon source, resulting in a blue color. *C. neoformans* isolates will 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.].

<sup>4</sup>2 days at 35°C in an aerobic atmosphere on RPMI 1640 agar with MOPS and 2% glucose (Remel R04067)

<sup>5</sup>bioMérieux Etest® 510858

<sup>6</sup>Clarity of broth was determined by visual inspection after 7 days in an aerobic atmosphere.

**Figure 1: Cellular and Colony Morphologies**



**Date:** 12 JUN 2017

**Signature:**



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