

Cryptococcus gattii, Strain C14

Catalog No. NR-50425

Product Description: *Cryptococcus gattii* (*C. gattii*), strain C14 was isolated from a human bronchial wash in the Pacific Northwest region of North America. *C. gattii*, strain C14 was deposited as lineage VGIIc and resistant to azoles.

Lot¹: 2196

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	Globose and budding (Figure 1A) Circular, convex, entire and mucoid (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)
Antimicrobial Susceptibility ^{4,5} Fluconazole	Report MIC (µg/mL)	48 µg/mL to 64 µg/mL
Purity ⁶ 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-50425 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.

²2 days at 25°C in an aerobic atmosphere on Yeast Mold agar

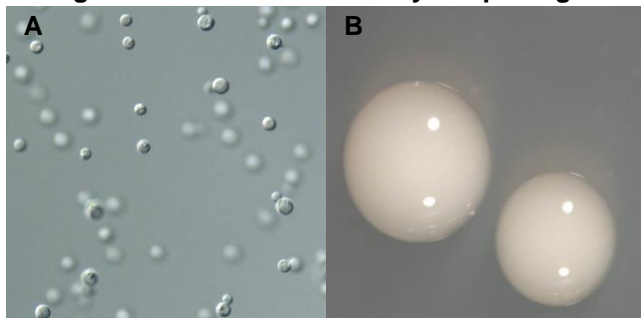
³5 days at 26°C in an aerobic atmosphere. CGB medium differentiates *C. gattii* from *C. neoformans* based on the ability of *C. gattii* isolates to grow in the presence of L-canavanine and to assimilate glycine as a sole carbon source, resulting in a blue color. *C. neoformans* isolates will show yellow 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 7 days in an aerobic atmosphere.

Figure 1: Cellular and Colony Morphologies



Certificate of Analysis for NR-50425

Date: 09 JUN 2017

Signature:



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