b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-50423

Cryptococcus gattii, Strain C71

Catalog No. NR-50423

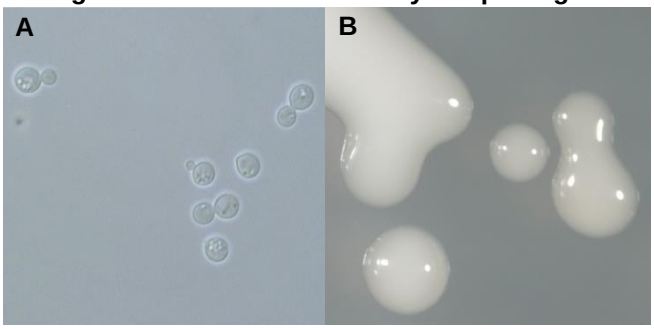
Product Description: *Cryptococcus gattii* (*C. gattii*), strain C71 was isolated from human cerebrospinal fluid in the Pacific Northwest region of North America. *C. gattii,* strain C71 was deposited as lineage VGIIc and resistant to azoles.

Lot[1]: 2192 **Manufacturing Date: 20DEC2016**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology[2]	Report results	Globose, budding and vacuoles (Figure 1A)
Colony morphology[2]	Report results	Circular, convex, entire, mucoid and butyrous (Figure 1B)
Canavanine-glycine-bromthymol blue (CGB) differential medium[3]	Report results	Blue
Genotypic Analysis		
Sequencing of partial 18S rRNA gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 28S rRNA (~ 510 base pairs)	≥ 99% sequence identity to *C. gattii* (GenBank: FJ914888.1)	100% sequence identity to *C. gattii* (GenBank: FJ914888.1)
Sequencing of 26S rRNA gene (~ 620 base pairs)	≥ 99% sequence identity to *C. gattii* (GenBank: KC171326.1)	100% sequence identity to *C. gattii* (GenBank: KC171326.1)
Antimicrobial Susceptibility[4,5]		
Fluconazole	Report MIC (µg/mL)	32 µg/mL
Purity[6]		
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

[1]NR-50423 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.
[2]2 days at 25°C in an aerobic atmosphere on Yeast Mold agar
[3]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.].
[4]2 days at 35°C in an aerobic atmosphere on RPMI 1640 agar with MOPS and 2% glucose (Remel R04067)
[5]bioMérieux Etest® 510858
[6]Clarity of broth was determined by visual inspection after 8 days in an aerobic atmosphere.

Figure 1: Cellular and Colony Morphologies



BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

Certificate of Analysis for NR-50423

Date: 09 JUN 2017 **Signature:** 

BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898