b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-49165

Cryptococcus gattii, Strain RV20186

Catalog No. NR-49165

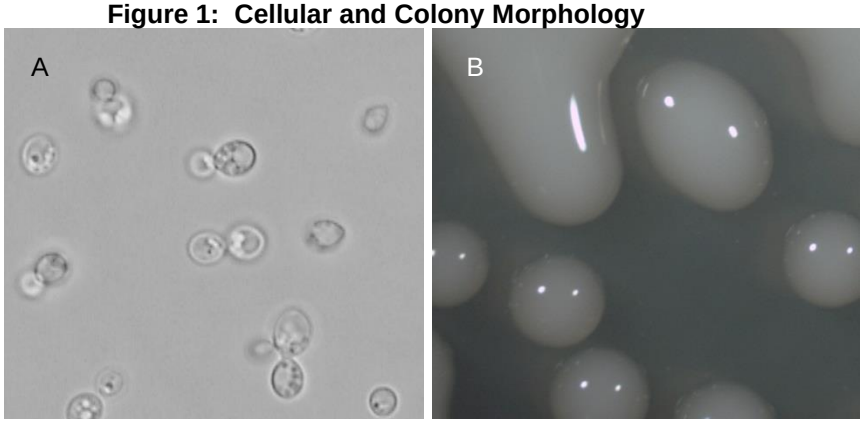
Product Description: *Cryptococcus gattii (C. gattii),* strain RV20186 was isolated from human cerebrospinal fluid in the Democratic Republic of Congo. Strain RV20186 was deposited as lineage VGI, serotype B with no specified mating type.

Lot[1]: 63214427 **Manufacturing Date: 23SEP2015**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology[2]	Report results	Globose, single or budding, no pseudohyphae (Figure 1A)
Colony morphology[3]	Report results	Smooth, glistening and white to cream (Figure 1B)
Canavanine-glycine-bromthymol blue (CGB) differential medium[4]	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 (~ 550 base pairs)	≥ 99% sequence identity to *C. gattii* (GenBank: FJ914888.1)	99.5% 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)	99.8% sequence identity to *C. gattii* (GenBank: KC171326.1)
Purity[5]		
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-49165 was produced by inoculation of seed material onto modified Sabouraud Dextrose agar and incubated for 2 days at 25°C in an aerobic atmosphere. Yeast were harvested from agar plates with 20% glycerol.
[2]3 days at 25°C in an aerobic atmosphere on modified Sabouraud Dextrose agar
[3]3 days at 25°C in an aerobic atmosphere on modified Sabouraud Dextrose agar
[4]3 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.]
[5]Clarity of broth was determined by visual inspection after 3 days in an aerobic atmosphere.

Figure 1: Cellular and Colony Morphology



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Certificate of Analysis for NR-49165

Date: 07 DEC 2016 **Signature:** 

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