

**Cryptococcus gattii, Strain Alg40**

**Catalog No. NR-50186**

**Product Description:** *Cryptococcus gattii* (*C. gattii*), strain Alg40 is the progeny of a genotypic cross between *C. gattii* strains R265 and CBS1930.

**Lot<sup>1</sup>: 63910607**

**Manufacturing Date: 22JAN2016**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b>		
Cellular morphology <sup>2</sup>	Report results	Globose to ovoid, single or budding (Figure 1A)
Colony morphology <sup>2</sup>	Report results	Circular, shiny, mucoid and entire (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>Purity<sup>4</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

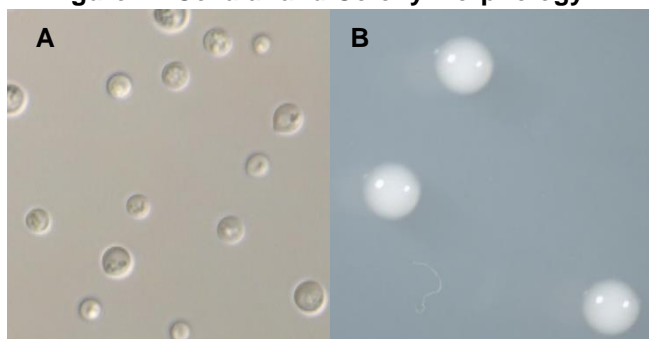
<sup>1</sup>NR-50186, lot 63910607, was produced by incubation of seed material in modified Sabouraud Dextrose medium and incubated for 3 days at 25°C in an aerobic atmosphere. Yeast were harvested from agar plates with 20% glycerol prior to vialing.

<sup>2</sup>2 days at 25°C in an aerobic atmosphere on modified Sabouraud Dextrose 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.* 2011 (49): 2522-2527. PubMed: 21593254.]

<sup>4</sup>Clarity of broth was determined by visual inspection after 7 days at 25°C and 37°C in an aerobic atmosphere.

**Figure 1: Cellular and Colony Morphology**



## Certificate of Analysis for NR-50186

**Date:** 18 JUL 2016

**Signature:**



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