

Cryptococcus gattii, Strain Alg254

Catalog No. NR-50198

Product Description: *Cryptococcus gattii* (*C. gattii*), strain Alg254 is a mutant of strain R265 where the basidiomycete white collar 2 (BWC2) gene has been replaced with a cassette conferring resistance to nourseothricin.

Lot¹: 64079526

Manufacturing Date: 10MAR2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology ²	Report results	Globose to ovoid, single or budding (Figure 1A)
Colony morphology ²	Report results	Circular, shiny, mucoid and entire (Figure 1B)
Canavanine-glycine-bromthymol blue (CGB) differential medium ³	Blue (<i>C. gattii</i>)	Blue (<i>C. gattii</i>)
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 <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)
Purity⁴		
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

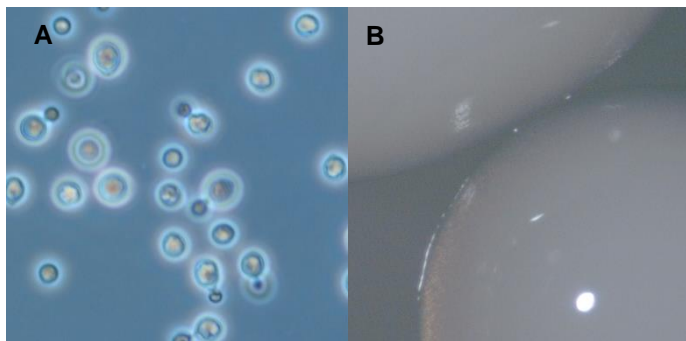
¹NR-50198, lot 64079526, was produced by incubation of seed material in modified Sabouraud Dextrose medium and incubated for 6 days at 25°C in an aerobic atmosphere. Yeast were harvested from agar plates with 20% glycerol prior to vialing.

²2 days at 25°C in an aerobic atmosphere on modified Sabouraud Dextrose agar

³3 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.]

⁴Clarity of broth was determined by visual inspection after 5 days at 25°C and 37°C in an aerobic atmosphere.

Figure 1: Cellular and Colony Morphology



Date: 08 JUL 2016

Signature:



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