

**Cryptococcus gattii, Strain Alg159**

**Catalog No. NR-50194**

**Product Description:** *Cryptococcus gattii* (*C. gattii*), strain Alg159 is the progeny of a genotypic cross between *C. gattii* strains R265 and Alg144.

**Lot<sup>1</sup>: 64079527**

**Manufacturing Date: 10MAR2016**

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, butyrous, smooth and entire (Figure 1B)
Canavanine-glycine-bromthymol blue (CGB) differential medium <sup>3</sup>	Blue ( <i>C. gattii</i> )	Blue ( <i>C. gattii</i> )
<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

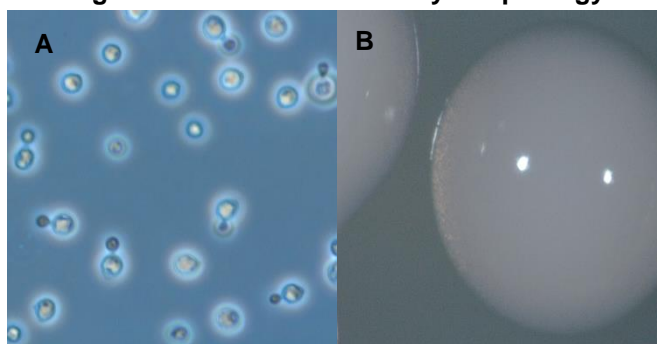
<sup>1</sup>NR-50194, lot 64079527, was produced by incubation of seed material in modified Sabouraud Dextrose medium and incubated for 6 days at 25°C in an aerobic atmosphere. Yeast were harvested from agar plates with sterile water, then mixed with 100% glycerol to a final concentration of 20% and vialled.

<sup>2</sup>2 days at 25°C in an aerobic atmosphere on modified Sabouraud Dextrose agar

<sup>3</sup>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.]

<sup>4</sup>Clarity 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**



## Certificate of Analysis for NR-50194

**Date:** 14 JUL 2016

**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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

