

Cryptococcus gattii, Strain Alg268

Catalog No. NR-43223

Product Description: *Cryptococcus gattii* (*C. gattii*), strain Alg268 is a complementation mutant of strain Alg254 (the basidiomycete white collar 2 (BWC2) gene was replaced with a nourseothricin cassette). The wild type BWC2 gene was amplified and inserted into a plasmid, which was transformed into *Agrobacterium tumefaciens*, and transconjugated into *C. gattii*, strain Alg254.

Lot^{1,2}: 61631852

Manufacturing Date: 29MAR2013

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology ³ Colony morphology ³ Canavanine-glycine-bromthymol blue (CGB) differential medium ⁴	Report results Report results Blue (<i>C. gattii</i>)	Sub-globose to ovoid, single (Figure 1A) Smooth, mucoid, entire and cream (Figure 1B) 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 (~ 520 base pairs) Sequencing of 26S rRNA gene (~ 620 base pairs)	Consistent with <i>C. gattii</i> Consistent with <i>C. gattii</i>	Consistent with <i>C. gattii</i> ⁵ Consistent with <i>C. gattii</i> ⁵
Purity⁶ Nutrient broth with 0.1% Yeast Extract at 25°C Nutrient broth with 0.1% Yeast Extract at 37°C	No bacterial growth No bacterial growth	No bacterial growth No bacterial growth
Viability (post-freeze)²	Growth	Growth

¹NR-43223, lot 61631852, was produced by the depositor by incubation at 30°C in Yeast Peptone Dextrose medium overnight. The resultant growth was mixed with 30% glycerol to a final concentration of 15% and vialled.

²Quality control testing was performed at BEI Resources.

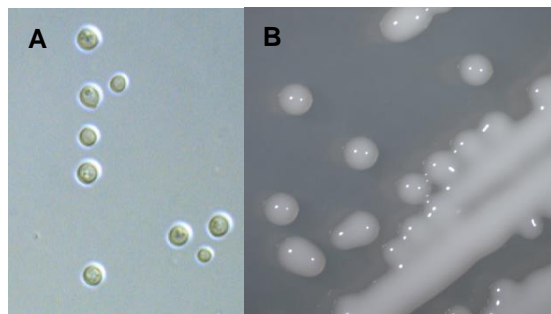
³2 days at 25°C in an aerobic atmosphere on Yeast Mold agar

⁴35 hours at 27°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.]

⁵Also consistent with *C. neoformans*

⁶Clarity of broth was determined by visual inspection after 2 days at 25°C and 37°C in an aerobic atmosphere.

Figure 1: Cellular morphology (A) and colony morphology (B)



Date: 24 FEB 2015

Signature: 

Title: Technical Manager, BEI Authentication or designee

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.

