

Cryptococcus gattii, Strain Alg250

Catalog No. NR-43225

Product Description: *Cryptococcus gattii* (*C. gattii*), strain Alg250 is the progeny of *C. gattii* strains AIR265a and AlgFUR1-1. Strain AIR265a is the progeny of a genotypic cross between *C. gattii* strains R265 and Alg166 and is one strain of a congenic pair (mating type a). Strain AlgFUR1-1 is a spontaneous mutant that is resistant to 5-fluorouracil (mating type α). Strain Alg250 was deposited as mating type a with resistance to 5-fluorouracil.

Lot^{1,2}: 61632116

Manufacturing Date: 29MAR2013

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology ³	Report results	Sub-globose to ovoid, single (Figure 1A)
Colony morphology ³	Report results	Smooth, mucoid, entire and cream (Figure 1B)
Canavanine-glycine-bromthymol blue (CGB) differential medium ⁴	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 (~ 520 base pairs)	Consistent with <i>C. gattii</i>	Consistent with <i>C. gattii</i> ⁵
Sequencing of 26S rRNA gene (~ 620 base pairs)	Consistent with <i>C. gattii</i>	Consistent with <i>C. gattii</i> ⁵
Purity⁶		
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-43225, lot 61632116, 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 viald.

²Quality control testing was performed at BEI Resources.

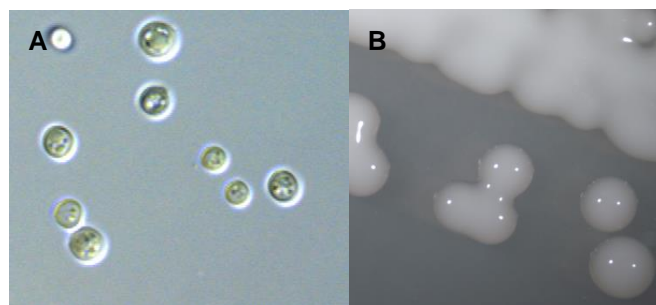
³2 days at 25°C in an aerobic atmosphere on Yeast Mold agar

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

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