

Cryptococcus gattii, Strain AIR265α

Catalog No. NR-43221

Product Description: *Cryptococcus gattii* (*C. gattii*), strain AIR265α is the progeny of a genotypic cross between *C. gattii* strains R265 and Alg166 and is one strain of a congenic pair.

Lot^{1,2}: 61631754

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-43221, lot 61631754, 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.

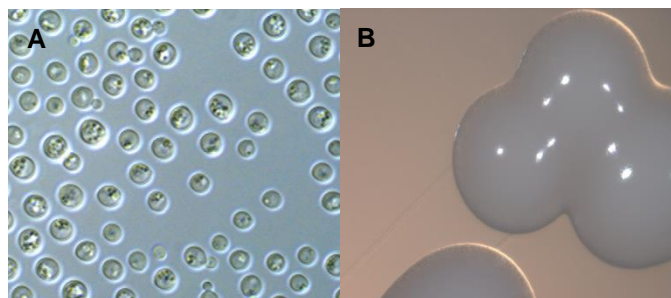
³2 days at 25°C in an aerobic atmosphere on Yeast Mold agar

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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