

***Cryptococcus gattii*, Strain AIR265a**

**Catalog No. NR-43220**

**Product Description:** *Cryptococcus gattii* (*C. gattii*), strain AIR265a is the progeny of a genotypic cross between *C. gattii* strains R265 and Alg166 and is one strain of a congeneric pair.

**Lot<sup>1,2</sup>: 61631753**

**Manufacturing Date: 29MAR2013**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b>		
Cellular morphology <sup>3</sup>	Report results	Globose to ovoid, single or budding (Figure 1A)
Colony morphology <sup>3</sup>	Report results	Smooth, mucoid, entire and cream (Figure 1B)
Canavanine-glycine-bromthymol blue (CGB) differential medium <sup>4</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 (~ 510 base pairs)	Consistent with <i>C. gattii</i>	Consistent with <i>C. gattii</i> <sup>5</sup>
Sequencing of 26S rRNA gene (~ 620 base pairs)	Consistent with <i>C. gattii</i>	Consistent with <i>C. gattii</i> <sup>5</sup>
<b>Purity<sup>6</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-43220, lot 61631753, 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.

<sup>2</sup>Quality control testing was performed at BEI Resources.

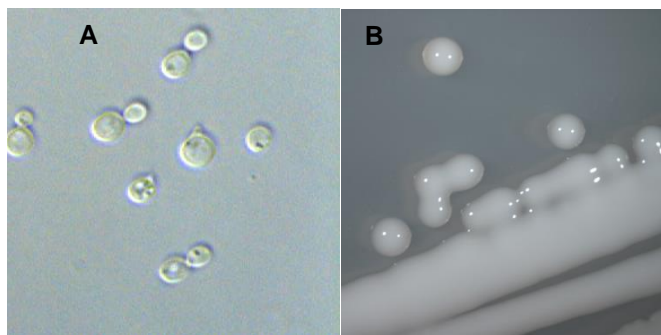
<sup>3</sup>2 days at 25°C in an aerobic atmosphere on Yeast Mold agar

<sup>4</sup>35 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.]

<sup>5</sup>Also consistent with *C. neoformans*

<sup>6</sup>Clarity 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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