

Cryptococcus gattii, Strain AlgFUR1-1

Catalog No. NR-43224

Product Description: *Cryptococcus gattii* (*C. gattii*), strain AlgFUR1-1 is a spontaneous mutant that is resistant to 5-fluorouracil (5-FU). It was isolated by culturing independent colonies of strain R265 overnight followed by plating on media containing 5-FU. The stability of the mutation was tested by growing single-colonies of the purified strain on nonselective and selective mediums.

Lot^{1,2}: 61631976

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 or budding (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-43224, lot 61631976, 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.

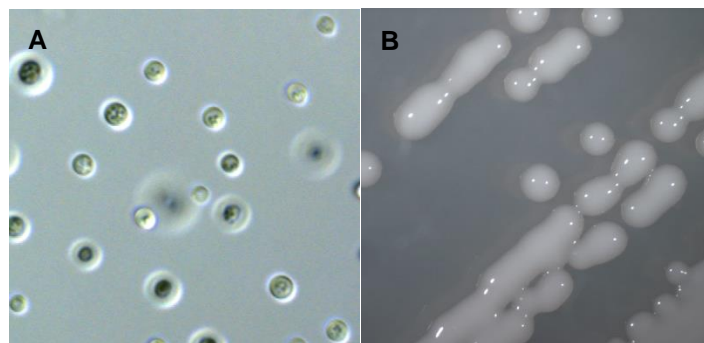
³2 days at 25°C in an aerobic atmosphere on Yeast Mold agar

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

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