Certificate of Analysis for NR-43220

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. NR-43220 was produced by inoculation of BEI Resources seed lot 61632122 into Yeast Mold agar, which was grown for 3 days at 25°C in an aerobic atmosphere. The agar growth was harvested with 10% glycerol to produce this lot.

Lot: 70063950 **Manufacturing Date: 06OCT2023**

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology 3 days at 25°C in an aerobic atmosphere on Yeast Mold agar	Report results	Globose-to-subglobose; single cells; no pseudohyphae observed (Figure 1)
Colony morphology 3 days at 25°C in an aerobic atmosphere on Yeast Mold agar	Report results	Circular, mucoid, glistening and cream (Figure 2)
Canavanine-glycine-bromthymol blue (CGB) differential medium[1] 1 day at 25°C in an aerobic atmosphere	Blue *(C. gatti)*	Blue *(C. gatti)*
Genotypic Analysis		
Sequencing of partial 18S ribosomal RNA (rRNA) gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 26S rRNA (~ 520 base pairs)	≥ 99% sequence identity to *C. gattii* (GenBank: FJ914888.1)	100% sequence identity to *C. gattii* (GenBank: FJ914888.1)[2]
Sequencing of 26S rRNA gene (620 base pairs)	≥ 99% sequence identity to *C. gattii* (GenBank: KC171326.1)	100% sequence identity to *C. gattii* (GenBank: KC171326.1)[2]
Purity		
Nutrient broth with 0.1% Yeast Extract at 25°C 3 days in an aerobic atmosphere	No bacterial growth	No bacterial growth
Nutrient broth with 0.1% Yeast Extract at 37°C 3 days in an aerobic atmosphere	No bacterial growth	No bacterial growth
Viability (post-freeze) 3 days at 25°C in an aerobic atmosphere on Yeast Mold agar	Growth	Growth

[1]CGB medium differentiates *C. gattii* from *C. neoformans* based on the ability of *C. gatti* 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. 49 (2011): 2522-2527. PubMed: 21593254.)

[2]Also consistent with other *Cryptococcus* species

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

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Figure 1: Cellular Morphology

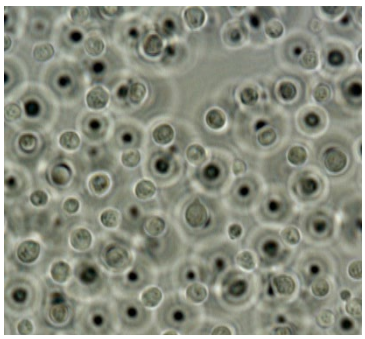

Figure 2: Colony Morphology

/Sonia Bjorum Brower/
Sonia Bjorum Brower 08 APR 2025
Technical Manager or designee, ATCC Federal Solutions

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.

Support Provided by NIAID

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898