

***Candida albicans*, Strain CAI4-F2-Neut5L-NAT1-mCherry-GFP**

Catalog No. NR-51634

Product Description:

Candida albicans (*C. albicans*), strain CAI4-F2-Neut5L-NAT1-mCherry-GFP was deposited to BEI Resources as a transgenic reporter strain that constitutively expresses green fluorescent protein (GFP) and red fluorescent protein via mCherry. NR-51634 was produced by inoculation of the deposited material onto Yeast Mold agar, which was grown for 5 days at 25°C in an aerobic atmosphere. A loopful of colonies from the plate were used to inoculate Yeast Mold agar kolles, which were grown for 2 days at 37°C in an aerobic atmosphere. The agar growth was harvested with 20% glycerol to produce this lot.

Lot: 70025927

Manufacturing Date: 12JUN2018

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology ¹ Colony morphology ¹ Biochemical Tests VITEK® MS (MALDI-TOF)	Report results Report results <i>C. albicans</i>	Globose to subglobose; in singles and clusters; no pseudohyphae observed Butyrous, dull, matte and off-white <i>C. albicans</i> (99.9%)
Genotypic Analysis Sequencing of partial 18S ribosomal RNA (rRNA) gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 26S rRNA (~ 500 base pairs) Sequencing of 28S rRNA gene (~ 590 base pairs)	≥ 99% sequence identity to <i>C. albicans</i> , strain SC5314 (GenBank: HQ876043.1) ≥ 99% sequence identity to <i>C. albicans</i> , strain SC5314 (GenBank: HQ876051.1)	99.8% sequence identity to <i>C. albicans</i> , strain SC5314 (GenBank: HQ876043.1) 99.8% sequence identity to <i>C. albicans</i> , strain SC5314 (GenBank: HQ876051.1) ²
Purity³ 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)¹	Growth	Growth

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

²Also consistent with *C. parapsilosis*, *C. africana*, *C. tropicalis* and *Pichia kudriavzevii*

³Clarity of broth was determined by visual inspection after 3 days in an aerobic atmosphere.

/Heather Couch/

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Program Manager or designee, ATCC Federal Solutions

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