

***Coccidioides posadasii*, Strain CPA0066**

Catalog No. NR-50074

Product Description: *Coccidioides posadasii* (*C. posadasii*), strain CPA0066 is an environmental isolate collected in 2004 from soil in Tucson, Arizona, USA.

Lot¹: 70015429

Manufacturing Date: 18JUN2018

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology ² Colony morphology ²	Report results Report results	Long, thin hyphae; barrel-shaped arthroconidia Circular, convex, entire, membranous, dull and white (Figure 1)
Genotypic Analysis³ Sequencing of partial 18S ribosomal RNA (rRNA) gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 26S rRNA (~ 620 base pairs) Sequencing of 28S rRNA gene (610 base pairs)	≥ 99% sequence identity to <i>C. posadasii</i> , strain CPA0066 (GenBank: ABIW01002920.1) ≥ 99% sequence identity to <i>C. posadasii</i> , strain CPA0066 (GenBank: ABIW01002920.1)	100% sequence identity to <i>C. posadasii</i> , strain CPA0066 (GenBank: ABIW01002920.1) ⁴ 100% sequence identity to <i>C. posadasii</i> , strain CPA0066 (GenBank: ABIW01002920.1) ⁴
Purity⁵ 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	Non-turbid growth Non-turbid growth
Viability (post-freeze)²	Growth	Growth

¹NR-50074 was produced by inoculation of the deposited material into Emmons' Modified Sabouraud Dextrose broth. Broth inoculum was added to Emmons' Modified Sabouraud Dextrose agar kolles, which were grown for 11 days at 37°C in an aerobic atmosphere with 5% CO₂. The agar growth was harvested with 20% glycerol to produce this lot.

²5 days at 37°C in an aerobic atmosphere with 5% CO₂ on Emmons' Modified Sabouraud Dextrose agar

³*C. immitis* and *C. posadasii* cannot be identified to the species level based on ITS and large subunit rRNA sequences (Tintelnot, K., et al. "Taxonomic and Diagnostic Markers for Identification of *Coccidioides immitis* and *Coccidioides posadasii*." *Med. Mycol.* 45 (2007): 385-393. PubMed: 17654264.).

⁴Also consistent with *C. immitis*

⁵Clarity of broth was determined by visual inspection after 5 days in an aerobic atmosphere with 5% CO₂.

Figure 1: Colony Morphology



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