

***Coccidioides posadasii*, Strain CPA0001**

**Catalog No. NR-50072**

**Product Description:** *Coccidioides posadasii* (*C. posadasii*), strain CPA0001 is an environmental isolate collected in 2004 from soil in Tucson, Arizona, USA.

**Lot<sup>1</sup>: 70015425**

**Manufacturing Date: 26JUN2018**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology <sup>2</sup>  Colony morphology <sup>2</sup>	Report results  Report results	Long, thin hyphae and barrel-shaped arthroconidia Circular, convex, entire, membranous, dull and white (Figure 1)
<b>Genotypic Analysis<sup>3</sup></b> Sequencing of partial 18S ribosomal RNA (rRNA) gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 26S rRNA (~ 610 base pairs) Sequencing of 28S rRNA gene (~ 610 base pairs)	≥ 99% sequence identity to <i>C. posadasii</i> , strain CPA0001 (GenBank: AFBO01003353.1) ≥ 99% sequence identity to <i>C. posadasii</i> , strain CPA0001 (GenBank: AFBO01003353.1)	100% sequence identity to <i>C. posadasii</i> , strain CPA0001 (GenBank: AFBO01003353.1) <sup>4</sup> 100% sequence identity to <i>C. posadasii</i> , strain CPA0001 (GenBank: AFBO01003353.1) <sup>4</sup>
<b>Purity<sup>5</sup></b> 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
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>NR-50072 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 19 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>. The agar growth was harvested with 20% glycerol to produce this lot.

<sup>2</sup>5 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Emmons' Modified Sabouraud Dextrose agar

<sup>3</sup>*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.).

<sup>4</sup>Also consistent with *C. immitis*

<sup>5</sup>Clarity of broth was determined by visual inspection after 5 days in an aerobic atmosphere with 5% CO<sub>2</sub>.

**Figure 1: Colony Morphology**



/Heather Couch/

Heather Couch

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