

***Coccidioides immitis*, Strain RS**

**Catalog No. NR-48942**

**Product Description:** *Coccidioides immitis* (*C. immitis*), strain RS was isolated from a human in California, USA.

**Lot<sup>1</sup>: 64242543**

**Manufacturing Date: 18JAN2017**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology <sup>2</sup> Colony morphology <sup>2</sup>	Report results Report results	Pseudohyphae observed (Figure 1) Irregular, raised, undulate, membranous, dull and white (Figure 2)
<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 (~ 530 base pairs) Sequencing of 28S rRNA gene (~ 610 base pairs)	≥ 99% sequence identity to <i>C. immitis</i> , strain RS (GenBank: AAEC03000009.1) ≥ 99% sequence identity to <i>C. immitis</i> , strain RS (GenBank: AAEC03000009.1)	100% sequence identity to <i>C. immitis</i> , strain RS (GenBank: AAEC03000009.1) <sup>4</sup> 100% sequence identity to <i>C. immitis</i> , strain RS (GenBank: AAEC03000009.1) <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-48942 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 6 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.

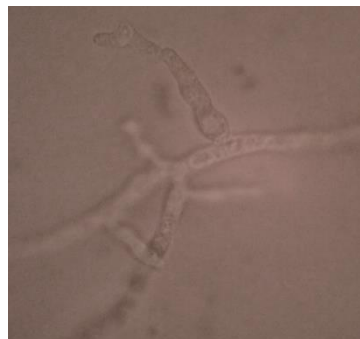
<sup>2</sup>7 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Emmons' Modified Sabouraud Dextrose agar

<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. posadasii*

<sup>5</sup>Clarity of broth was determined by visual inspection after 3 days in an aerobic atmosphere with 5% CO<sub>2</sub>.

**Figure 1: Cellular Morphology**



**Figure 2: Colony Morphology**



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23 AUG 2018

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