

***Coccidioides immitis*, Strain 2006**

Catalog No. NR-48934

Product Description: *Coccidioides immitis* (*C. immitis*), strain 2006 was isolated in the 1990s from a human with coccidioidomycosis in the San Joaquin Valley, California, USA.

Lot¹: 70003095

Manufacturing Date: 29SEP2017

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 (~ 580 base pairs) Sequencing of 28S rRNA gene (~ 610 base pairs)	≥ 99% sequence identity to <i>C. immitis</i> , strain 2394 (GenBank: AATX01000460.1) ≥ 99% sequence identity to <i>C. immitis</i> , strain 2394 (GenBank: AATX01000510.1)	100% sequence identity to <i>C. immitis</i> , strain 2394 (GenBank: AATX01000510.1) ⁴ 100% sequence identity to <i>C. immitis</i> , strain 2394 (GenBank: AATX01000513.1) 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-48934 was produced by inoculation of the deposited material into Emmons' Modified Sabouraud Dextrose broth. Broth inoculum was added to Emmons' Modified Sabouraud Dextrose agar, which was grown for 7 days at 37°C in an aerobic atmosphere with 5% CO₂. A single mycelium plug from the agar was used to inoculate Emmons' Modified Sabouraud Dextrose broth, which was grown for 12 days at 37°C in an aerobic atmosphere with 5% CO₂. The broth was added to Emmons' Modified Sabouraud Dextrose kolles, which were grown for 11 days at 37°C in an aerobic atmosphere with 5% CO₂. The agar growth was harvested from the kolles with 20% glycerol to produce this lot.

²4 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. posadasii*

⁵Clarity of broth was determined by visual inspection after 17 days in an aerobic atmosphere with 5% CO₂.

Figure 1: Colony Morphology



/Heather Couch/
Heather Couch

15 NOV 2018

Program 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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

