

Genomic DNA from *Coccidioides posadasii*, Δ cts2/ Δ ard1/ Δ cts3

Catalog No. NR-59863

Product Description:

Genomic DNA was extracted from a preparation of *Coccidioides posadasii* (*C. posadasii*), strain Δ cts2/ Δ ard1/ Δ cts3 (BEI Resources NR-166). The fungal preparation used for extraction of genomic DNA was produced from a culture of BEI Resources NR-166 lot 2398-54 using proprietary technology and is provided in 10 mM Tris-HCl, 1 mM EDTA, pH 8.

Lot: 70069008

Manufacturing Date: 29MAY2026

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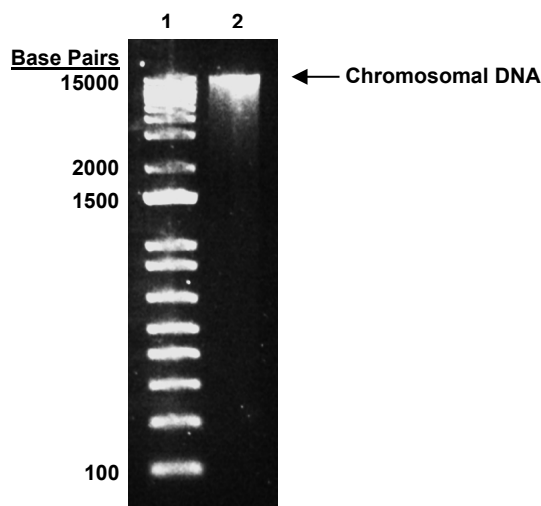
TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® Measurement	0.2 to 3.5 µg in 20 to 200 µL/vial	0.5 µg in 75 µL/vial (7.2 µg/mL)
Amount per Vial	0.2 to 3.5 µg	0.5 µg
Genotypic Analysis¹ Sequencing of partial 18S ribosomal RNA (rRNA) gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 26S rRNA (590 base pairs) Sequencing of 28S rRNA gene (~ 600 base pairs)	≥ 99% sequence identity to <i>C. posadasii</i> type strain (GenBank: CP075075.1) ≥ 99% sequence identity to <i>C. posadasii</i> type strain (GenBank: CP075073.1)	99.7% sequence identity to <i>C. posadasii</i> type strain (GenBank: CP075075.1) ² 100% sequence identity to <i>C. posadasii</i> type strain (GenBank: CP075073.1) ²
Functional Activity by PCR Amplification¹ ITS 1, 5.8S rRNA gene, ITS 2	~ 1500 base pair amplicon	~ 1500 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	2.0
Fungal Inactivation 10% of total DNA yield inoculated in Glucose-Yeast Extract (GYE) broth and incubated for 14 days at 30°C in an aerobic atmosphere	No viable organisms detected	No viable organisms detected

¹*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.).

²Also consistent with *C. immitis*

³Primer sequences and conditions for PCR are available upon request.

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: ~ 200 ng of NR-59863

/Sonia Bjorum Brower/

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23 SEP 2026

Technical Manager or designee, ATCC Federal Solutions

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