

***Mucor circinelloides* forma *circinelloides*, Strain Mucho**

Catalog No. NR-49117

Product Description: *Mucor circinelloides* forma *circinelloides* (*M. circinelloides* f. *circinelloides*), strain Mucho, was obtained from yogurt. *M. circinelloides* f. *circinelloides*, strain Mucho is virulent in murine and insect host models (larval *Galleria mellonella*).

Lot¹: 63140915

Manufacturing Date: 11DEC2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Colony morphology ² Surface, hyphae Spores ²	Report results Report results	White to black, brown hirsute; ovoides sporangia globosa (Figure 1A) Thick- and thin-walled (Figure 1B)
Genotypic Analysis Sequencing of internal transcribed spacer (ITS) 1 (~ 580 base pairs) Sequencing of 28s ribosomal RNA (rRNA) gene (~ 850 base pairs) Sequencing of RNA polymerase II (large subunit; RPB1) gene (~ 870 base pairs)	Consistent with <i>M. circinelloides</i> Consistent with <i>M. circinelloides</i> Consistent with <i>M. circinelloides</i> f. <i>circinelloides</i>	Consistent with <i>M. circinelloides</i> ³ Consistent with <i>M. circinelloides</i> ⁴ Consistent with <i>M. circinelloides</i> f. <i>circinelloides</i> ⁵
Purity⁶ 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	No bacterial growth No bacterial growth
Viability (post-freeze)²	Growth	Growth

¹NR-49117 was produced by inoculation of the deposited material into Yeast Mold broth in an aerobic atmosphere at 25°C for 5 days. Broth inoculum was added to Yeast Mold agar plates which were grown 10 days at 25°C in an aerobic atmosphere. Spores and mycelia were harvested to produce this lot.

²2 days at 25°C in an aerobic atmosphere on Potato Dextrose agar

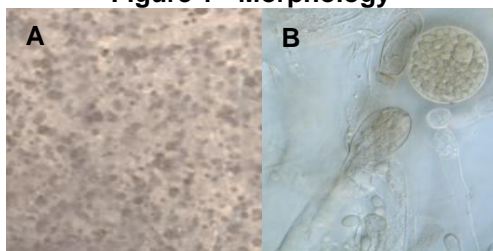
³Sequence aligns with 99.7% identity to *M. circinelloides* f. *circinelloides* (GenBank: KJ588204.1)

⁴Sequence aligns with 99.9% similarity to *M. circinelloides* f. *circinelloides* (GenBank: KJ588205.1)

⁵Sequence aligns with 100% similarity to *M. circinelloides* f. *circinelloides* (GenBank: KJ588206.1)

⁶Clarity of broth was determined by visual inspection after 2 days at 25°C and 37°C in an aerobic atmosphere.

Figure 1 - Morphology



Date: 26 MAR 2015

Signature:

Title: Technical Manager, BEI Authentication or designee

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