

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

Catalog No. NR-49117

Product Description:

Mucor circinelloides f. *circinelloides* (*M. circinelloides* f. *circinelloides*), strain Mucho was isolated in Texas, USA, from yogurt during an outbreak of gastrointestinal illness in 2013. Strain Mucho is virulent in murine and insect host models (larval *Galleria mellonella*). NR-49117 was produced by inoculation of BEI Resources seed lot 63140916 onto Yeast Mold agar kolles, which were grown for 7 days at 25°C in an aerobic atmosphere. The agar growth was harvested with 20% glycerol to produce this lot.

Lot: 70074798

Manufacturing Date: 30MAY2025

| TEST | SPECIFICATIONS | RESULTS |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Phenotypic Analysis Cellular morphology 3 days at 25°C in an aerobic atmosphere on Nutrient agar with 0.1% Yeast Extract Colony morphology 3 days at 25°C in an aerobic atmosphere on Nutrient agar with 0.1% Yeast Extract VITEK® MS | Report results Report results <i>Mucor circinelloides</i> (≥ 89%) | Abundant sporangia; sporangiophores smooth-walled and ellipsoidal and show both erect and recurved structures (Figure 1) Low, floccose, dark tan. Reverse uncolored. (Figure 2) <i>Mucor circinelloides</i> (99.9%) |
| Genotypic Analysis Sequencing of partial 18S ribosomal RNA (rRNA) gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 26S rRNA (~ 600 base pairs) Sequencing of 28S rRNA gene (~ 690 base pairs) | ≥ 99% sequence identity to <i>M. circinelloides</i> f. <i>circinelloides</i> (GenBank: KJ588204.1) ≥ 99% sequence identity to <i>M. circinelloides</i> f. <i>circinelloides</i> (GenBank: KJ588205.1) | 99.5% sequence identity to <i>M. circinelloides</i> f. <i>circinelloides</i> , Strain Mucho (GenBank: KJ588204.1) 99.6% sequence identity to <i>M. circinelloides</i> f. <i>circinelloides</i> , Strain Mucho (GenBank: KJ588205.1) |
| Purity Nutrient broth with 0.1% Yeast Extract at 25°C 3 days in an aerobic atmosphere Nutrient broth with 0.1% Yeast Extract at 37°C 3 days in an aerobic atmosphere | No bacterial growth No bacterial growth | No bacterial growth No bacterial growth |
| Viability (post-freeze) 3 days at 25°C in an aerobic atmosphere on Nutrient broth with 0.1% Yeast Extract | Growth | Growth |

Figure 1: Cellular Morphology

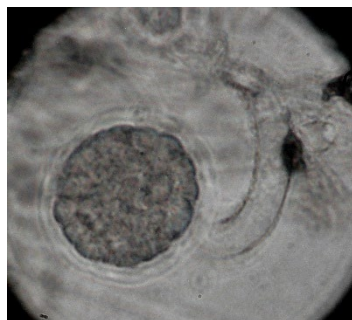


Figure 2: Colony Morphology



/Sonia Bjorum Brower/

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17 DEC 2025

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