

Aspergillus fumigatus, Strain ASFU-2263

Catalog No. NR-45108

Product Description:

Aspergillus fumigatus (*A. fumigatus*), strain ASFU-2263 was isolated in July 2012 from sputum obtained from a fatal case of invasive aspergillosis in Belgium. *A. fumigatus*, strain ASFU-2263 was deposited as an azole resistant strain due to a mutation in the *cyp51A* gene (TR46/Y121F/T289A). NR-45108 was produced by inoculation of BEI Resources seed lot 64241817 onto Yeast Mold agar kolles, which were grown for 6 days at 25°C in an aerobic atmosphere. The agar growth was harvested with 20% glycerol to produce this lot.

Lot: 70065328

Manufacturing Date: 22APR2024

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Colony morphology 3 days at 25°C in an aerobic atmosphere on Yeast Mold agar Surface Reverse Conidial morphology 3 days at 25°C in an aerobic atmosphere on Yeast Mold agar Conidia, conidiophore Conidial heads VITEK® MS (MALDI TOF)	Report results Report results Report results Report results <i>A. fumigatus</i>	White, low, velutinous and crenellated (Figure 1) Rusty orange Spathulate vesicles; phialides in uniseriate arrangement; smooth-walled conidia (Figure 2) Columnar with uncolored stripes (Figure 2) <i>A. fumigatus</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 (~ 560 base pairs) Sequencing of 28S rRNA gene (~ 590 base pairs)	≥ 99% sequence identity to <i>A. fumigatus</i> type strain (GenBank: HQ026746.1) ≥ 99% sequence identity to <i>A. fumigatus</i> type strain (GenBank: KU729178.1)	100% sequence identity to <i>A. fumigatus</i> type strain (GenBank: HQ026746.1) ¹ 100% sequence identity to <i>A. fumigatus</i> type strain (GenBank: KU729178.1) 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 Yeast Mold agar	Growth	Growth

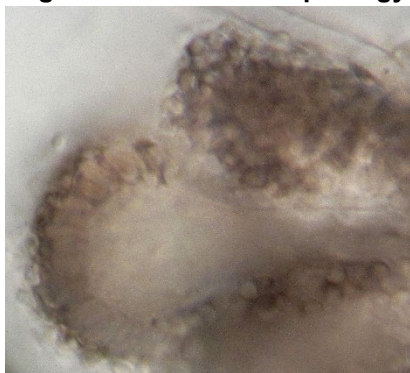
¹Also consistent with other *Aspergillus* species

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Figure 1: Colony Morphology



Figure 2: Conidial Morphology



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