

Deinococcus grandis, Strain SK125

Catalog No. HM-111

Product Description:

Deinococcus grandis (*D. grandis*), strain SK125 was isolated from normal skin of the arm of a 47-year-old woman. HM-111 was produced by inoculation of BEI Resources seed lot 60486665 into Nutrient broth and grown for 2 days at 30°C in an aerobic atmosphere. Broth inoculum was added to Nutrient agar kolles, which were grown for 2 days at 30°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Note: Quality control of HMP material is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

Lot: 70083355

Manufacturing Date: 12JUN2026

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility (wet mount)	Report results Report results Report results	Gram-variable rods ¹ Circular, raised, entire, smooth and pink (Figure 1) Non-motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (1390 base pairs)	Consistent with <i>D. grandis</i>	Consistent with <i>D. grandis</i> ²
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Nutrient agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology ²
Viability (post-freeze)	Growth	Growth

¹*D. grandis* is classified as a Gram-negative organism with an unusual cell wall structure consisting of a thick peptidoglycan layer that is difficult to colorize evenly, often resulting in a Gram-positive or Gram-variable staining pattern. For more information, please refer to: Gerber, E., et al. "Deinococcus as a New Chassis for Industrial Biotechnology: Biology, Physiology and Tools." *J. Appl. Microbiol.* 119 (2015): 1-10. PubMed: 25809882. and Oyaizu, H., et al. "A Radiation-Resistant Rod-Shaped Bacterium, *Deinobacter grandis* gen. nov., sp. nov., with Peptidoglycan Containing Ornithine." *Int. J. Syst. Bacteriol.* 37 (1987): 62-67.

²Also consistent with other *Deinococcus* species

Figure 1: Cellular Morphology



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