

***Deinococcus grandis*, Strain SK125**

**Catalog No. HM-111**

**For research use only. Not for human use.**

**Contributor:**

Guillermo I. Perez-Perez, D.Sc., Associate Professor of Medicine, Departments of Medicine and Microbiology; School of Medicine, New York University, New York, New York

**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Deinococcaceae*, *Deinococcus*

Species: *Deinococcus grandis*

Strain: SK125

Original Source: *Deinococcus grandis* (*D. grandis*), strain SK125 was isolated from normal skin of the arm of a 47-year-old woman.<sup>1,2</sup>

Comments: *D. grandis*, strain SK125 ([HMP ID 0315](#)) is a reference genome for [The Human Microbiome Project](#) (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *D. grandis*, strain SK125 is currently being sequenced at the [J. Craig Venter Institute](#).

Note: HMP material is taxonomically classified by the depositor. Quality control of these materials is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material.

*D. grandis* is a radiation-resistant, aerobic, Gram-negative, rod-shaped bacterium that is a common inhabitant of the normal human skin.<sup>3</sup> *Deinococcus* cells are classified as Gram-negative, but they possess a thick, inner peptidoglycan layer which may result in Gram-positive staining.<sup>3</sup>

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Nutrient Broth supplemented with 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**

HM-111 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

**Growth Conditions:**

Media:

Nutrient Broth/Agar ([ATCC medium 3](#)) or equivalent

Incubation:

Temperature: 30°C

Atmosphere: Aerobic

Propagation:

1. Keep vial frozen until ready for use, then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tube, slant and/or plate at 30°C for 48 hours.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Deinococcus grandis*, Strain SK125, HM-111."

**Biosafety Level: 1**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. G. I. Perez-Perez, personal communication.
2. [HMP ID 0315](#) (*Deinococcus grandis*, strain SK125)
3. 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.
4. Rainey, F. A., et al. "Phylogenetic Diversity of the *Deinococci* as Determined by 16S Ribosomal DNA Sequence Comparison." Int. J. Syst. Bacteriol. 47 (1997): 510-514. PubMed: 9103641.

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