

Certificate of Analysis for HM-111D

Genomic DNA from *Deinococcus grandis*, Strain SK125

Catalog No. HM-111D

Product Description: Genomic DNA was obtained from a preparation of *Deinococcus grandis* (*D. grandis*), strain SK125.

Lot^{1,2}: 59980905

Manufacturing Date: 04APR2012

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1440 base pairs) ³	≥ 99% identical to GenBank: PRJNA34069 (<i>Deinococcus grandis</i> , strain SK125) Consistent with <i>Deinococcus grandis</i>	Pending ³ Consistent with <i>Deinococcus grandis</i>
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® Measurement	0.7 to 1.5 µg in 25 to 100 µL per vial	1.0 µg in 30 µL per vial (32 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.0	1.8
Bacterial Inactivation 10% of total yield plated on Tryptic Soy Agar with 5% defibrinated sheep blood ^{4,5}	No viable bacteria detected	No viable bacteria detected

¹Quality control of HMP organisms used for DNA extraction is only performed to demonstrate that the material produced by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

²The bacterial preparation used for extraction of genomic DNA was produced by culture of the deposited material. Genomic DNA was extracted using proprietary technology.

³The sequence obtained for HM-111D could only be compared with published sequences. No 16S sequence was provided by the depositor, therefore, a direct comparison could not be performed.

⁴7 days at 37°C and aerobic atmosphere

⁵An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.

Date: 02 NOV 2012

Signature:



Title:

Technical Manager, BEI Authentication or designee

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