

Certificate of Analysis for HM-114D

Genomic DNA from *Micrococcus luteus*, Strain SK58

Catalog No. HM-114D

Product Description: Genomic DNA was obtained from a preparation of *Micrococcus luteus* (*M. luteus*), strain SK58.

Lot^{1,2}: 60302579

Manufacturing Date: 25AUG2011

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1330 base pairs)	≥ 99% identical to GenBank ADCCD01000038 (<i>M. luteus</i> , strain SK58)	≥ 99% identical to GenBank ADCCD01000038 (<i>M. luteus</i> , strain SK58)
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	0.8 µg in 89 µL per vial (9 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD ₂₆₀ /OD ₂₈₀ Ratio	1.7 to 2.0	1.9
Bacterial Inactivation 10% of total yield plated on Tryptic Soy Agar with 5% defibrinated sheep blood ^{3,4}	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 Nutrient Broth culture of the deposited material. After incubation for 48 hours at 26°C and aerobic atmosphere, genomic DNA was extracted using proprietary technology.

³7 days at 37°C and aerobic atmosphere

⁴An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.

Date: 12 MAR 2012

Signature:



Title:

Technical Manager, BEI Authentication or designee

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