

Genomic DNA from *Klebsiella pneumoniae*, Isolate 3

Catalog No. NR-15466

Product Description: Genomic DNA was obtained from a preparation of *Klebsiella pneumoniae* (*K. pneumoniae*), isolate 3.

Lot¹: 58855097

Manufacturing Date: 10MAR2010

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1450 base pairs)	Consistent with <i>K. pneumoniae</i>	Consistent with <i>K. pneumoniae</i>
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen[®] Measurement	4 to 6 µg in 25 to 100 µL per vial	4.6 µg in 31 µL per vial (149 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Presence of β-lactamase (<i>bla_{KPC}</i>) gene ²	~ 1500 bp amplicon ~ 1000 bp amplicon	~ 1500 bp amplicon ~ 1000 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.9
Bacterial Inactivation 10% of total yield plated on Tryptic Soy Agar with 5% sheep blood ^{3,4}	No viable bacteria detected	No viable bacteria detected

¹The bacterial preparation used for extraction of genomic DNA was produced by inoculation of the deposited material into Tryptic Soy Broth. After incubation for 48 hours at 37°C in an aerobic atmosphere, genomic DNA was extracted using proprietary technology.

²Yigit, H. et al. "Novel Carbapenem-Hydrolyzing β-Lactamase, KPC-1, from a Carbapenem-Resistant Strain of *Klebsiella pneumoniae*." *Antimicrob. Agents Chemother.* 45 (2001): 1151-1161. PubMed: 11257029.

³7 days at 37°C in an aerobic atmosphere

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

Date: 11 FEB 2011

Signature: 

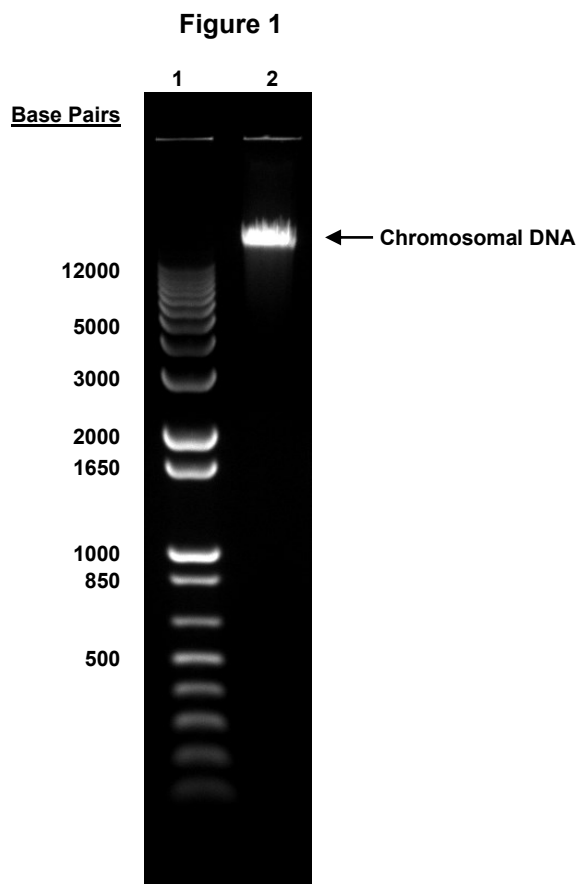
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Lane 1: Invitrogen™ TrackIt 1 Kb Plus DNA Ladder™
Lane 2: 200 ng of NR-15466