

Naked Plasmid pVV16 for Expression in *Mycobacterium smegmatis*

Catalog No. NR-13402

This reagent is the tangible property of the U.S. Government.

Product Description: Naked plasmid pVV16 contains a histidine-tag and a signal sequence and is used for expression in *Mycobacterium smegmatis*.

Lot¹: 58730805

Manufacturing Date: 26MAR2010

TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis Linearization with <i>NdeI</i> ² Linearization with <i>HindIII</i> ³ Linearization with <i>EcoRI</i> ⁴	~ 5.8 kb ~ 5.8 kb ~ 1.4 kb; ~ 4.5 kb	~ 5.8 kb (Figure 1) ~ 5.8 kb (Figure 1) ~ 1.4 kb; ~ 4.5 kb (Figure 1)
Concentration by PicoGreen[®] Measurement	0.7 to 1.5 µg in 25 to 100 µL per vial	1.1 µg in 38 µL per vial (27 µg/mL)
Absorbance Ratio (OD₂₆₀/OD₂₈₀)	≥ 1.7 to ≤ 2.0	1.9
Effective Bacterial Transformation	≥ 100 colonies per 10 ng	≥ 100 colonies per 10 ng

¹Produced in *Escherichia coli* MAX Efficiency[®] DH5α[™] cells (Invitrogen[™] 18258-012) and extracted using the Qiafilter Plasmid Midi Kit (QIAGEN[®] 12243)

²*NdeI* (New England BioLabs, Inc. R0111L)

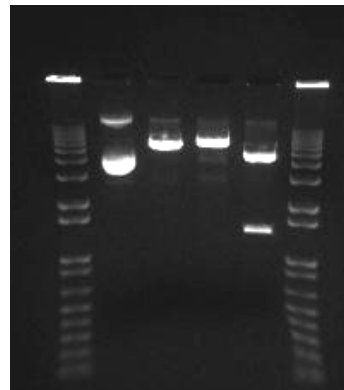
³*HindIII* (New England BioLabs, Inc. R0104M)

⁴*EcoRI* (New England BioLabs, Inc. R0101M)

Figure 1: Agarose Gel of Undigested and Restriction Enzyme Digested NR-13402.

Lane 1: Invitrogen[™] TrackIt 1 Kb Plus DNA Ladder[™]
Lane 2: Undigested NR-13402
Lane 3: NR-13402 digested with *NdeI*
Lane 4: NR-13402 digested with *HindIII*
Lane 5: NR-13402 digested with *EcoRI*
Lane 6: Invitrogen[™] TrackIt 1 Kb Plus DNA Ladder[™]

5000
2000
1650
1000
500



Date: 08 FEB 2012

Signature:

Title:

Technical Manager, BEI Authentication or designee

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