

Plasmid Containing Hemagglutinin Gene from Monkeypox Virus, Zaire 79, Linearized

Catalog No. NR-4076

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Product Description: The hemagglutinin (HA) gene from monkeypox virus, Zaire 79 (BEI Resources NR-2324) was amplified from extracted DNA and cloned into a commercial vector. The plasmid was produced in *Escherichia coli* DH5 α TM-T1^R cells, extracted using a QIAGEN Plasmid Maxi Kit and linearized with *Hind*III. The sequence of the HA gene of NR-4076 differs from the monkeypox virus, Zaire 79 HA sequence (GenBank: DQ011155) by one nucleotide at position 516 (T to C).

Lot: 61694558

Manufacturing Date: 08MAY2013

TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis of Linearized Plasmid DNA ¹	Migrates as a single band at ~ 5,100 bp	Migrates as a single band at ~ 5,100 bp
DNA Concentration by PicoGreen [®] Measurement	Report results	60 μ g per mL (6 μ g/100 μ L)
Concentration of DNA Molecules	Calculated using PicoGreen [®] concentration and molecular weight of plasmid	1.08 X 10 ¹³ molecules per mL (5.40 X 10 ¹⁰ molecules per 5 μ L)
Sequencing of HA Gene (942 bp)	Report results	One nucleotide difference from GenBank DQ011155 at position 516 of the HA gene (T to C)

¹DNA from monkeypox virus, Zaire 79 (BEI Resources NR-2324, lot 4729797) was extracted using a QIAamp Viral RNA Minikit (QIAGEN 52904). The HA gene was amplified and cloned into a commercial vector. Plasmid DNA was extracted using a Plasmid Plus Maxi Kit (QIAGEN 12963). Purified plasmid DNA was linearized with *Hind*III (New England BioLabs, Inc. R0105S).

Date: 07 NOV 2013

Signature: 

Title: Technical Manager, BEI Authentication or designee

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