

Certificate of Analysis for NR-29011

Plasmid Containing N2 Neuraminidase (NA) Gene from Influenza A Virus, A/mallard/Netherlands/3/1999 (H5N2)

Catalog No. NR-29011

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

Product Description: The N2 neuraminidase (NA) gene from influenza A virus, A/mallard/Netherlands/3/1999 (H5N2), was cloned into a modified version of the bidirectional reverse genetics plasmid, pHW2000. The plasmid was produced in *Escherichia coli* and extracted.¹

Lot¹: 61119643

Manufacturing Date: 07NOV2013

TEST	SPECIFICATIONS	RESULTS
Confirmation of Insert by Restriction Enzyme Digestion Digestion with <i>SacI</i> ²	~ 1.8 kb (insert); ~ 2.6 kb (vector)	~ 1.8 kb; ~ 2.6 kb
Sequencing of N2 Neuraminidase Coding Region	Consistent with A/mallard/Netherlands/3/1999 (H5N2)	99% identity with A/mallard/Netherlands/3/1999 (H5N2) (GenBank: CY064944)
PicoGreen® Measurement DNA content DNA concentration	Report results Report results	67 ng per vial 0.7 ng per µL
Effective Bacterial Transformation	≥ 100 colonies per ng	≥ 100 colonies per ng

¹Produced in *Escherichia coli* Stbl2™ cells (Invitrogen™ 10268) and extracted using an EndoFree® Plasmid Maxi Kit (QIAGEN® 12362)

²*SacI* (New England BioLabs, Inc. R0156M)

Date: 24 JUN 2013

Signature:

Dorothy C. Young

Title: Technical Manager, BEI Authentication or designee

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