

Certificate of Analysis for NR-29004

Plasmid Containing H12 Hemagglutinin (HA) Gene from Influenza A Virus, A/mallard/Sweden/86/2003 (H12N5)

Catalog No. NR-29004

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

Product Description: The H12 hemagglutinin (HA) gene from influenza A virus, A/mallard/Sweden/86/2003 (H12N5), was cloned into a modified version of the bidirectional reverse genetics plasmid, pHW2000. The plasmid was produced in *Escherichia coli* and extracted.¹

Lot¹: 61056466

Manufacturing Date: 29JUN2012

TEST	SPECIFICATIONS	RESULTS
Confirmation of Insert by Restriction Enzyme Digestion Digestion with <i>SacI</i> ²	~ 2.1 kb (insert); ~ 2.6 kb (vector)	~ 2.1 kb; ~ 2.6 kb
Sequencing of H12 Hemagglutinin Coding Region	Consistent with A/mallard/Sweden/86/2003 (H12N5)	99% identity with A/mallard/Sweden/86/2003 (H12N5) (GenBank: CY060390)
PicoGreen[®] Measurement DNA content DNA concentration	Report results Report results	130 ng per vial 1.3 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: 19 AUG 2014

Signature:



Title: Technical Manager, BEI Authentication or designee

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