

Plasmid Containing N1 Neuraminidase (NA) Gene from Influenza A Virus, A/common teal/Netherlands/10/2000 (H1N1)

Catalog No. NR-29009

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Product Description:

The N1 neuraminidase (NA) gene from influenza A virus, A/common teal/Netherlands/10/2000 (H1N1), was cloned into a modified version of the bidirectional reverse genetics plasmid, pHW2000. NR-29009 was extracted from a preparation of BEI Resources seed lot BEI Resources seed lot 60688727 produced in *Escherichia coli* Stbl2™ cells (Invitrogen™ 10268) in the presence of 100 µg/mL ampicillin and extracted using a Plasmid Plus Maxi Kit (QIAGEN® 12963).

Lot: 70061593

Manufacturing Date: 19JUL2023

| TEST | SPECIFICATIONS | RESULTS |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Confirmation of Insert by Restriction Enzyme Digestion Digestion with <i>SacI</i> ¹ | ~ 2 kb; ~ 3 kb | ~ 2 kb; ~ 3 kb |
| Genotypic Analysis Sequencing of N1 Neuraminidase Coding Region (~ 1380 base pairs) | Consistent with A/common teal/Netherlands/10/2000 (H1N1) (GenBank: CY060180.1) | 99.9% identity with A/common teal/Netherlands/10/2000 (H1N1) (GenBank: CY060180.1) ² |
| Concentration by Qubit® Measurement | ≥ 2 µg/mL | 0.75 µg in 100 µL/vial (7.5 µg/mL) |
| Amount per Vial | Report results | 0.75 µg/vial |
| OD₂₆₀/OD₂₈₀ Ratio (pre-vial) | 1.7 to 2.1 | 1.96 |
| Effective Bacterial Transformation Invitrogen™ MAX Efficiency™ Stbl2™ <i>E. coli</i> | ≥ 50 colonies/ng | 266 colonies/ng |

¹*SacI* (New England BioLabs, Inc. R0156M)

²Alignment with reference sequence (GenBank: [CY060180.1](https://www.ncbi.nlm.nih.gov/nuccore/CY060180.1)) indicated presence of one SNP: C1240G (S413W).

/Sonia Bjorum Brower/

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22 JAN 2024

Technical Manager or designee, ATCC Federal Solutions

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