

Plasmid Containing H1 Hemagglutinin (HA) Gene from Influenza A Virus, A/common teal/Netherlands/10/2000 (H1N1)

Catalog No. NR-28993

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Product Description:

The H1 hemagglutinin (HA) 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. The deposited plasmid was transformed into *Escherichia coli* Stbl2™ cells (Invitrogen™ 10268), grown in Luria-Bertani broth with ampicillin (100 µg/mL) for 1 day at 30°C, shaking at 220 rpm, in an aerobic atmosphere, extracted using a Plasmid Plus Maxi Kit (QIAGEN® 12963) and vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0).

Lot: 70057415

Manufacturing Date: 18JAN2023

| TEST | SPECIFICATIONS | RESULTS |
|---|---|--|
| Restriction Enzyme Digestion (pre-vial) Digestion with SacI | ~ 3.0 kb (vector) ~ 2.5 kb (insert) | ~ 3.0 kb (vector) ~ 2.5 kb (insert) |
| Sequencing of H1 Hemagglutinin Insert (~ 1740 base pairs) | ≥ 99% sequence identity to A/common teal/Netherlands/10/2000 (H1N1) (GenBank: CY060178.1) | 100% sequence identity to A/common teal/Netherlands/10/2000 (H1N1) (GenBank: CY060178.1) |
| Concentration by Qubit™ Measurement | ≥ 2 µg/mL | 1.3 µg in 100 µL/vial (13 µg/mL) |
| Amount per Vial | Report results | 1.3 µg/vial |
| OD₂₆₀/OD₂₈₀ Ratio (pre-vial) | 1.7 to 2.1 | 2.0 |
| Effective Bacterial Transformation Invitrogen™ Stbl2™ <i>Escherichia coli</i> | ≥ 50 colonies/ng | 430 colonies/ng |

/Sonia Bjorum Brower/

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27 MAR 2023

Technical Manager or designee, ATCC Federal Solutions

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