

New England Biolabs Certificate of Analysis

Product Name: SARS-CoV-2 Positive Control (N gene)
Catalog Number: N2117S
Packaging Lot Number: 10122707
Expiration Date: 02/2023
Storage Temperature: -20°C
Storage Conditions: Proprietary
Specification Version: PS-N2117S v2.0

SARS-CoV-2 Positive Control (N gene) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N2117SVIAL	SARS-CoV-2 Positive Control (N gene)	10100711	Pass

Assay Name/Specification	Lot # 10122707
A260/A280 Assay The ratio of UV absorption of SARS-CoV-2 Positive Control (N gene) at 260 and 280 nm is between 1.8 and 2.0.	Pass
Restriction Digest (Linearization) A 50 µl reaction in CutSmart® Buffer containing 5 µg of SARS-CoV-2 Positive Control (N gene) and 20 units of XhoI incubated for 1 hour at 37°C produces > 95% linearization resulting in a single band of approximately 4021 bp as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (DNA, 16 hour) A 50 µl reaction in 1X NEBuffer 2 containing 5 µg of SARS-CoV-2 Positive Control (N gene) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
DNA Concentration (qPCR, Control DNA) SARS-CoV-2 Positive Control (N gene) is quantified using qPCR. Triplicate, 20 µl reactions are run on SARS-CoV-2 Positive Control (N gene), six DNA standards, and no template controls for 40 cycles of PCR amplification, resulting in a standard curve with a calculated PCR efficiency of 90-110% and R2 value ≥0.99, and a ΔCq >10 between the sample and no template controls. For each new lot tested, the difference in Cq between the new lot and the standard 3 is <1 Cq. For each new lot tested, the difference in Cq between the new lot and the control lot is <1 Cq.	Pass
Functional Testing (qPCR, SARS-CoV-2)	Pass

Assay Name/Specification	Lot # 10122707
SARS-CoV-2 Positive Control (N gene) is functionally tested and compared to a previous lot in a multiplex qPCR assay that detects the 2019-nCoV_N1 target and the 2019-nCoV_N2 target. 2 µl of the SARS-CoV-2 Positive Control (N gene) is measured in triplicate in 20 µl reactions resulting in a ΔCq 10 between the sample and no template controls.	

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.



Christie Vazquez
Production Scientist
22 Sep 2021



Michael Tonello
Packaging Quality Control Inspector
22 Sep 2021