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240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	SARS-CoV-2 Positive Control (N gene)
Catalog Number:	N2117S
Packaging Lot Number:	10146987
Expiration Date:	01/2024
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)	10143730	Pass		

Assay Name/Specification	Lot # 10146987
Restriction Digest (Linearization) A 50 μ l reaction in CutSmart® Buffer containing 5 μ g of SARS-CoV-2 Positive Control (N gene) and 20 units of Xhol 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
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
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
Functional Testing (qPCR, SARS-CoV-2) 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 μ I of the SARS-CoV-2 Positive Control (N gene) is measured in triplicate in 20 μ I reactions resulting in a Δ Cq 10 between the sample and no template controls.	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	Pass





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template controls for 40 cycles of PCR amplification, resulting in a standard curve with a calculated PCR efficiency of 90-110% and R2 value \geq 0.99, and a Δ Cq >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.	

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 Vanguez

Christie Vazquez Production Scientist 29 Mar 2022

Josh Hersey

Packaging Quality Control Inspector 29 Mar 2022

