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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:	PhiX174 Virion DNA
Catalog Number:	N3023S
Concentration:	1,000 μg/ml
Unit Definition:	N/A
Packaging Lot Number:	10091083
Expiration Date:	08/2022
Storage Temperature:	-20°C
Storage Conditions:	10 mM Tris-HCI (pH 8.0), 1 mM EDTA
Specification Version:	PS-N3023S/L v1.0

PhiX174 Virion DNA Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N3023SVIAL	PhiX174 Virion DNA	10081346	Pass	

Assay Name/Specification	Lot # 10091083
A260/A280 Assay The ratio of UV absorption of ϕ X174 Virion DNA at 260 and 280 nm is between 1.8 and 2.0.	Pass
DNA Concentration (A260) The concentration of ϕ X174 Virion DNA is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.	Pass
Electrophoretic Pattern (Plasmid) The banding pattern of φX174 Virion DNA on a 1.2% agarose gel is evaluated against a control lot for sharpness and relative intensity as determined by gel electrophoresis using Ethidium Bromide.	Pass
Mung Bean Nuclease Digest (Sensitive) A 100 µl reaction in Mung Bean Nuclease Reaction Buffer containing 5 µg of \$\$X174 Virion DNA and 10 units of Mung Bean Nuclease incubated for 1 hour at 30°C results in complete digestion of the DNA 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 ϕ X174 Virion DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass





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Assay Name/Specification	Lot # 10091083
Restriction Digest (Single Stranded, Resistant)	Pass
A 50 µl reaction in CutSmart [™] Buffer containing 5 µg of ¢X174 Virion DNA and a minimum of 20 units of XhoI incubated for 1 hour at 37°C results in no detectable digestion of the DNA as determined by agarose gel electrophoresis.	

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.

Ana Egana Production Scientist 30 Nov 2020

Ton, NU Michae

Michael Tonello Packaging Quality Control Inspector 30 Nov 2020