

be INSPIRED *drive* DISCOVERY *stay* GENUINE

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:	N3023L
Concentration:	1,000 μg/ml
Unit Definition:	N/A
Lot Number:	10041287
Expiration Date:	04/2021
Storage Temperature:	-20°C
Storage Conditions:	10 mM Tris-HCl (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	
N3023LVIAL	PhiX174 Virion DNA	10041288	Pass	

Assay Name/Specification	Lot # 10041287
Electrophoretic Pattern (Plasmid) The banding pattern of \$\$\phiX174 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 μ I reaction in Mung Bean Nuclease Reaction Buffer containing 5 μ g of ϕ 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 φX174 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
Restriction Digest (Single Stranded, Resistant) 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.	Pass
A260/A280 Assay The ratio of UV absorption of \$\$X174 Virion DNA at 260 and 280 nm is between 1.8 and	Pass





be INSPIRED *drive* DISCOVERY *stay* GENUINE

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

Assay Name/Specification	Lot # 10041287
2.0.	
DNA Concentration (A260)	Pass
The concentration of ϕ X174 Virion DNA is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.	

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

Mulhice

Vanessa Mathieu-Sheltry Production Scientist 02 Apr 2019

Michae 711.

Michael Tonello Packaging Quality Control Inspector 05 Jun 2019

