

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
Packaging Lot Number:	10244092
Expiration Date:	05/2026
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	
N3023LVIAL	PhiX174 Virion DNA	10238466	Pass	

Assay Name/Specification	Lot # 10244092
A260/A280 Assay The ratio of UV absorption of $\phi$ X174 Virion DNA at 260 and 280 nm is between 1.8 and 2.0.	Pass
<b>DNA Concentration (A260)</b> The concentration of $\phi$ X174 Virion DNA is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.	Pass
<b>Electrophoretic Pattern (Plasmid)</b> The banding pattern of \$\$\Delta\$X174 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
<b>Mung Bean Nuclease Digest (Sensitive)</b> A 100 $\mu$ I reaction in Mung Bean Nuclease Reaction Buffer containing 5 $\mu$ g of $\phi$ 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
<b>Non-Specific DNase Activity (DNA, 16 hour)</b> A 50 $\mu$ I reaction in 1X NEBuffer 2 containing 5 $\mu$ g of $\phi$ 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 # 10244092
Restriction Digest (Single Stranded, Resistant) A 50 µl reaction in CutSmart™ Buffer containing 5 µg of ¢X174 Virion DNA and a	Pass
minimum of 20 units of Xhol 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.

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Nulhicehit

Vanessa Mathieu-Sheltry Production Scientist 09 May 2024

Josh Hersey

Packaging Quality Control Inspector 18 Jun 2024

