

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: 10062073
Expiration Date: 01/2022
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			
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result
N3023SVIAL	PhiX174 Virion DNA	10062071	Pass

Assay Name/Specification	Lot # 10062073
Restriction Digest (Single Stranded, Resistant) A 50 µl reaction in CutSmart™ Buffer containing 5 µg of \$\phi\$X174 Virion DNA and a 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.	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
DNA Concentration (A260) The concentration of φX174 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 φX174 Virion DNA and 10 units of Mung Bean Nuclease incubated for 1 hour at 30°C results	Pass



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

Vanessa Mathieu-Sheltry
Production Scientist

Mulhium

11 Dec 2019

Jay Minichiello

Packaging Quality Control Inspector

02 Jan 2020

