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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 RF I DNA
Catalog Number:	N3021S
Concentration:	1,000 μg/ml
Unit Definition:	N/A
Packaging Lot Number:	10100831
Expiration Date:	03/2023
Storage Temperature:	-20°C
Storage Conditions:	10 mM Tris-HCI (pH 8.0), 1 mM EDTA
Specification Version:	PS-N3021S/L v1.0

PhiX174 RF I DNA Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N3021SVIAL	PhiX174 RF I DNA	10100832	Pass	

Assay Name/Specification	Lot # 10100831
Restriction Digest (Linearization) A 50 µl reaction in CutSmart <sup>™</sup> Buffer containing 5 µg of ¢X174 RF I DNA and 20 units of Xhol incubated for 1 hour at 37°C produces > 95% linearization resulting in a single band of approximately 5386 bp as determined by agarose gel electrophoresis.	Pass
<b>Non-Specific DNase Activity (DNA, 16 hour)</b> A 50 μl reaction in 1X NEBuffer 2 containing 5 μg of φX174 RF I 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
<b>A260/A280 Assay</b> The ratio of UV absorption of $\phi$ X174 RF I DNA at 260 and 280 nm is between 1.8 and 2.0.	Pass
<b>Electrophoretic Pattern (Plasmid)</b> The banding pattern of \$\$\phiX174 RF I 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>DNA Concentration (A260)</b> The concentration of $\phi$ X174 RF I DNA is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.	Pass





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

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Ana Egana Production Scientist 10 Mar 2021

Michae 11.

Michael Tonello Packaging Quality Control Inspector 10 Mar 2021

