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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:	10163016
Expiration Date:	08/2024
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	10163017	Pass	

Assay Name/Specification	Lot # 10163016
Restriction Digest (Linearization) A 50 µl reaction in CutSmart [™] 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
Non-Specific DNase Activity (DNA, 16 hour) 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
Electrophoretic Pattern (Plasmid) The banding pattern of ϕ X174 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
DNA Concentration (A260) The concentration of ϕ X174 RF I DNA is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.	Pass
A260/A280 Assay The ratio of UV absorption of ϕ X174 RF I DNA at 260 and 280 nm is between 1.8 and 2.0.	Pass





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

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Vanessa Mathieu-Sheltry Production Scientist 22 Aug 2022

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Michael Tonello Packaging Quality Control Inspector 22 Aug 2022

