

New England Biolabs Certificate of Analysis

Product Name: *PhiX174 RF II DNA*
Catalog Number: *N3022L*
Concentration: *1,000 µg/ml*
Unit Definition: *N/A*
Packaging Lot Number: *10133520*
Expiration Date: *10/2023*
Storage Temperature: *-20°C*
Storage Conditions: *10 mM Tris-HCl (pH 8.0), 1 mM EDTA*
Specification Version: *PS-N3022S/L v1.0*

PhiX174 RF II DNA Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3022LVIAL	PhiX174 RF II DNA	10125367	Pass


Assay Name/Specification	Lot # 10133520
Restriction Digest (Linearization) A 50 µl reaction in CutSmart™ Buffer containing 5 µg of φX174 RF II DNA DNA and 20 units of XhoI 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 II 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 φX174 RF II 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 φX174 RF II 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 φX174 RF II DNA at 260 and 280 nm is between 1.8 and 2.0.	Pass

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

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24 Jan 2022



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24 Jan 2022