

be INSPIRED *drive* DISCOVERY *stay* GENUINE

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 II DNA |
|------------------------|------------------------------------|
| Catalog Number: | N3022L |
| Concentration: | 1,000 μg/ml |
| Unit Definition: | N/A |
| Packaging Lot Number: | 10160254 |
| Expiration Date: | 08/2024 |
| Storage Temperature: | -20°C |
| Storage Conditions: | 10 mM Tris-HCI (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 | 10160253 | Pass | |

| Assay Name/Specification | Lot # 10160254 |
|--|----------------|
| Non-Specific DNase Activity (DNA, 16 hour) A 50 µl reaction in 1X NEBuffer 2 containing 5 µg of \$\$\phiX174 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 |
| A260/A280 Assay The ratio of UV absorption of ϕ X174 RF II DNA at 260 and 280 nm is between 1.8 and 2.0. | Pass |
| Electrophoretic Pattern (Plasmid) The banding pattern of ϕ X174 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 ϕ X174 RF II DNA is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm. | Pass |
| Restriction Digest (Linearization) A 50 µl reaction in CutSmart [™] Buffer containing 5 µg of ¢X174 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 |





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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 19 Aug 2022

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Michael Tonello Packaging Quality Control Inspector 19 Aug 2022

