

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: *10092841*
Expiration Date: *12/2022*
Storage Temperature: *-20°C*
Storage Conditions: *10 mM Tris-HCl (pH 8.0), 1 mM EDTA*
Specification Version: *PS-N3023S/L v1.0*

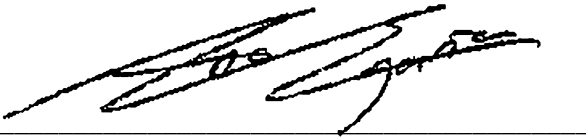
PhiX174 Virion DNA Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3023SVIAL	PhiX174 Virion DNA	10092842	Pass

Assay Name/Specification	Lot # 10092841
A260/A280 Assay The ratio of UV absorption of ϕ X174 Virion DNA at 260 and 280 nm is between 1.8 and 2.0.	Pass
DNA Concentration (A260) The concentration of ϕ X174 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 ϕ X174 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 ϕ X174 Virion DNA and 10 units of Mung Bean Nuclease incubated for 1 hour at 30°C results in complete 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 ϕ X174 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

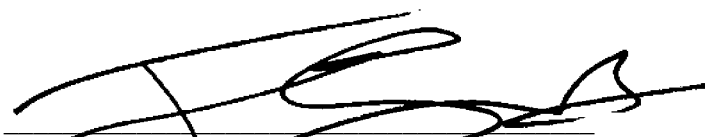
Assay Name/Specification	Lot # 10092841
<p>Restriction Digest (Single Stranded, Resistant) A 50 µl reaction in CutSmart™ Buffer containing 5 µg of φX174 Virion DNA and a minimum of 20 units of XhoI incubated for 1 hour at 37°C results in no detectable digestion of the DNA as determined by agarose gel electrophoresis.</p>	<p>Pass</p>

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

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Ana Egana
Production Scientist
15 Jan 2021



Josh Hersey
Packaging Quality Control Inspector
15 Jan 2021