

New England Biolabs Certificate of Analysis

Product Name: Φ X174 Virion DNA
Catalog #: N3023S/L
Concentration: 1,000 μ g/ml
Unit Definition: N/A
Lot #: 1251704
Assay Date: 04/2017
Expiration Date: 4/2019
Storage Temp: -20°C
Storage Conditions: 10 mM Tris-HCl (pH 8.0), 1 mM EDTA
Specification Version: PS-N3023S/L v1.0
Effective Date: 20 Nov 2015

Assay Name/Specification (minimum release criteria)	Lot #1251704
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 μ g/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 μ l reaction in Mung Bean Nuclease Reaction Buffer containing 5 μ g 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 μ l reaction in 1X NEBuffer 2 containing 5 μ g 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
Restriction Digest (Single Stranded, Resistant) - A 50 μ l reaction in CutSmart™ Buffer containing 5 μ g of Φ X174 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.	Pass



Authorized by
Derek Robinson
20 Nov 2015



Inspected by
Vanessa Mathieu-Sheltry
06 Apr 2017

