

New England Biolabs Certificate of Analysis

Product Name: Gel Loading Dye, Purple (6X)
Catalog #: B7024S
Concentration: 6X Concentrate
Lot #: 0231804
Assay Date: 04/2018
Expiration Date: 04/2021
Storage Temp: 25°C
Composition (1X): 3.3 mM Tris-HCl, 10 mM EDTA, 2.5 % Ficoll[®] 400, 0.08 % SDS, 0.02 % Dye 1, 0.0008 % Dye 2, (pH 8.0 @ 25°C)
Specification Version: PS-B7024S v1.0
Effective Date: 16 Feb 2018

Assay Name/Specification (minimum release criteria)	Lot #0231804
Endonuclease Activity (Nicking) - A 50 µl reaction in CutSmart [®] Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 10 µl of Gel Loading Dye, Purple (6X) incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) - A 50 µl reaction in CutSmart [®] Buffer containing 1 µg of a mixture of single and double-stranded [³ H] <i>E. coli</i> DNA and a minimum of 10 µl of Gel Loading Dye, Purple (6X) incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) - A 50 µl reaction in CutSmart [®] Buffer containing 1 µl of digested 2-Log Ladder DNA and a minimum of 10 µl of Gel Loading Dye, Purple (6X) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
RNase Activity (Extended Digestion) - A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of Gel Loading Dye, Purple (6X) is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass



Authorized by
Derek Robinson
16 Feb 2018



Inspected by
Tony Spear-Alfonso
06 Apr 2018

