

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: Gel Loading Dye Purple (6X)

Catalog Number: B7024S

Concentration: 6 X Concentrate

Packaging Lot Number: 10086330 Expiration Date: 10/2023 Storage Temperature: 25°C

Specification Version: PS-B7024S v2.0

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)

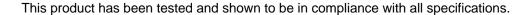
Gel Loading Dye Purple (6X) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10084974	Pass	

Assay Name/Specification	Lot # 10086330
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 [³H] E. coli 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 μg of digested 1 kb Plus DNA 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



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Michael Dalton

Production Scientist 03 Dec 2020

Michael Tonello

Packaging Quality Control Inspector

03 Dec 2020

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