

New England Biolabs Certificate of Analysis

Product Name: Gel Loading Dye Purple (6X)
Catalog Number: B7024S
Concentration: 6 X Concentrate
Lot Number: 10008115
Expiration Date: 03/2021
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)	0221803	Pass

Assay Name/Specification	Lot # 10008115
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
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] 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

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



Michael Dalton
Production Scientist
17 May 2018



Michael Tonello
Packaging Quality Control Inspector
17 May 2018