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 #: B7024S* 

Concentration: 6X Concentrate

Lot #: 0121712

Assay Date: 12/2017

Expiration Date: 12/2020 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: 15 Apr 2019

Assay Name/Specification (minimum release criteria)	Lot #0121712
<b>Endonuclease Activity (Nicking)</b> - 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
<b>Exonuclease Activity (Radioactivity Release)</b> - A 50 μl reaction in CutSmart® Buffer containing 1 μg of a mixture of single and double-stranded [ <sup>3</sup> 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 $\mu$ l reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 $\mu$ l 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 Doreen Duquette 15 Apr 2019

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Quality





Inspected by
Tony Spear-Alfonso

07 Dec 2017