

## New England Biolabs Certificate of Analysis

**Product Name:** Gel Loading Dye, Purple (6X), no SDS  
**Catalog Number:** B7025S  
**Concentration:** 6 X Concentrate  
**Packaging Lot Number:** 10231298  
**Expiration Date:** 01/2027  
**Storage Temperature:** 25°C  
**Specification Version:** PS-B7025S v2.0  
**Composition (1X):** 3.3 mM Tris-HCl, 10 mM EDTA, 2.5 % Ficoll® 400, 0.02 % Dye 1, 0.0008 % Dye 2, (pH 8.0 @ 25°C)

Gel Loading Dye, Purple (6X), no SDS Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10221491	Pass

Assay Name/Specification	Lot # 10231298
<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), no SDS 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] E. coli DNA and a minimum of 10 µl of Gel Loading Dye, Purple (6X), no SDS incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
<b>Non-Specific DNase Activity (16 Hour)</b> 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), no SDS incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
<b>RNase Activity (Extended Digestion)</b> 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), no SDS 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

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

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Scott Schallehn  
Production Scientist  
07 Feb 2024



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Michael Tonello  
Packaging Quality Control Inspector  
18 Mar 2024