

New England Biolabs Certificate of Analysis

Product Name: Blue Loading Buffer Pack
Catalog #: B7703S
Concentration: 3X Concentrate
Lot #: 0261712
Assay Date: 12/2017
Expiration Date: 12/2020
Storage Temp: -20°C
Composition (1X): 187.5 mM Tris-HCl, 6 % (w/v) SDS, 30 % Glycerol, 0.03 % Bromophenol Blue, (pH 6.8 @ 25°C)
Specification Version: PS-B7703S v1.0
Effective Date: 23 May 2018

Assay Name/Specification (minimum release criteria)	Lot #0261712
Electrophoretic Pattern - The components of the Blue Loading Buffer Pack are tested to ensure the banding pattern of an NEB protein ladder on a 10-20% Tris-Glycine gel shows discrete, clearly identifiable bands at each size fragment of the marker when stained with Coomassie Blue at a concentration of 0.1%.	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 Blue Loading Buffer incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) - A 50 µl reaction in CutSmart® Buffer containing 1 µg of 1 kb Plus DNA Ladder DNA and a minimum of 5 µl of Blue Loading Buffer 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 Blue Loading Buffer 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
23 May 2018



Inspected by
Tony Spear-Alfonso
19 Jan 2018

