

New England Biolabs Certificate of Analysis

Product Name: Blue Loading Buffer Pack
Catalog Number: B7703S
Lot Number: 10009148
Expiration Date: 02/2021
Storage Temperature: -20°C
Specification Version: PS-B7703S v1.0
Composition (1X): 187.5 mM Tris-HCl, 6 % (w/v) SDS, 30 % Glycerol, 0.03 % Bromophenol Blue, (pH 6.8 @ 25°C)

Blue Loading Buffer Pack Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B7705SVIAL	30X Reducing Agent	0091802	Pass
B7703SVIAL	Blue Loading Buffer Pack	0261802	Pass

Assay Name/Specification	Lot # 10009148
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
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
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

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



Michael Dalton
Production Scientist
04 Jun 2018



Michael Tonello
Packaging Quality Control Inspector
04 Jun 2018