NEW ENGLAND BioLabs Inc.
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New England Biolabs
Certificate of Analysis

Product Name:	*Blue Loading Buffer Pack*
Catalog Number:	*B7703S*
Lot Number:	*10028846*
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	10027757	**Pass**

Assay Name/Specification	**Lot # 10028846**
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 37ºC 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**

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

Tony Spear-Alfonso
Production Scientist
15 Nov 2018

Michael Tonello
Packaging Quality Control Inspector
16 Nov 2018