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New England Biolabs Certificate of Analysis

Product Name: CutSmart® Buffer

Catalog Number: B7204S

Concentration: 10 X Concentrate

Packaging Lot Number: 10078755 Expiration Date: 06/2023 Storage Temperature: -20°C

Specification Version: PS-B7204S v1.0

Composition (1X): 50 mM Potassium Acetate , 20 mM Tris Acetate, 10 mM Magnesium

Acetate, 100 μg/ml BSA, (pH 7.9 @ 25°C)

CutSmart® Buffer Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
B7204SVIAL	CutSmart® Buffer	10077115	Pass	

Assay Name/Specification	Lot # 10078755
RNase Activity (Buffer) A 10 µl reaction in 1X CutSmart® Buffer containing 40 ng of a 300 base	Pass
single-stranded RNA is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by fluorescent detection.	
pH (buffers/solutions) The pH of 10X CutSmart® Buffer is between pH 7.8 and 8.0 at 25°C.	Pass
Non-Specific DNase Activity (16 hour, Buffer)	Pass
A 50 µl reaction in 1X CutSmart® Buffer containing 1 µg of PhiX174-HaeIII DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	
Functional Testing (Restriction Digest, Buffer) A 50 µl reaction in 1X CutSmart® Buffer containing 1 µg of Lambda DNA and 1 unit of Mscl incubated for 1 hour at 37°C results in complete digestion of the substrate DNA as determined by agarose gel electrophoresis.	Pass
Functional Testing (Restriction Digest, Buffer) A 50 μl reaction in 1X CutSmart® Buffer containing 1 μg of Lambda dam- DNA and 1 unit of Clal incubated for 1 hour at 37°C results in complete digestion of the	Pass
substrate DNA as determined by agarose gel electrophoresis.	



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

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Production Scientist

07 Aug 2020

Josh Hersey

Packaging Quality Control Inspector

07 Aug 2020



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