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## New England Biolabs Certificate of Analysis

Product Name: CutSmart® Buffer

Catalog Number: B7204S

Concentration: 10 X Concentrate

Packaging Lot Number: 10118304
Expiration Date: 08/2024
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
B7204SVIAL	CutSmart® Buffer	10098661	Pass	

Assay Name/Specification	Lot # 10118304
Non-Specific DNase Activity (16 hour, Buffer) 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.	Pass
pH (buffers/solutions) The pH of 10X CutSmart® Buffer is between pH 7.8 and 8.0 at 25°C.	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 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 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
Conductivity (buffers/solutions) The conductivity of 10X CutSmart® Buffer is between 40 and 46 mS at 25°C.	Pass
Endonuclease Activity (Nicking, Buffer)	Pass



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substrate RNA remains intact as determined by fluorescent detection.

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Michael Dalton Production Scientist 10 Aug 2021

Michael Tonello

Packaging Quality Control Inspector

10 Aug 2021



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