

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name: rCutSmart™ Buffer

Catalog Number: B6004S

Concentration: 10 X Concentrate

Packaging Lot Number: 10173159
Expiration Date: 10/2025
Storage Temperature: -20°C

Specification Version: PS-B6004S/V v1.0

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

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

rCutSmart™ Buffer Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
B6004SVIAL	rCutSmart™ Buffer	10168648	Pass	

Assay Name/Specification	Lot # 10173159
Functional Testing (Restriction Digest, Buffer) A 50 µl reaction in 1X rCutSmart™ 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 rCutSmart™ Buffer containing 1 μg of Lambda DNA and 1 unit of EcoRI-HF® 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 rCutSmart™ 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
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X rCutSmart™ 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 rCutSmart™ Buffer is between pH 7.8 and 8.0 at 25°C.	Pass



B6004S / Lot: 10173159

Page 1 of 2

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.

Nancy Considine Production Scientist 06 Nov 2022

my boundary

Michael Tonello

Packaging Quality Control Inspector

23 Nov 2022



B6004S / Lot: 10173159

Page 2 of 2