

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: Srfl
Catalog Number: R0629L
Concentration: 20,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of pNEB193-Srfl DNA in CutSmart incubated for 1 hour at 37°C in a

total reaction volume of 50 µl.

Packaging Lot Number: 10171376
Expiration Date: 05/2024
Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 %

Glycerol , 500 μg/ml BSA, (pH 7.4 @ 25°C)

Specification Version: PS-R0629S/L v1.0

Srfl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0629LVIAL	Srfl	10171375	Pass	
B6004SVIAL	rCutSmart™ Buffer	10162782	Pass	

Assay Name/Specification	Lot # 10171376
Protein Purity Assay (SDS-PAGE) Srfl is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue	Pass
detection.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [3H] E. coli DNA and a minimum of 200 units of Srfl incubated for 4	
hours at 37°C releases <0.1% of the total radioactivity.	
Endonuclease Activity (Nicking)	Pass
A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled pBR322 DNA and a minimum of 100 units of Srfl incubated for 4 hours at 37°C results in <10%	
conversion to the nicked form as determined by agarose gel electrophoresis.	
Functional Testing (15 minute Digest)	Pass
A 50 µl reaction in CutSmart® Buffer containing 1 µg of pNEB193-Srfl DNA and 1 µl of	
Srfl incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.	



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

free of detectable nuclease degradation as determined by agarose gel

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YunJie Suń

Production Scientist

electrophoresis.

16 Nov 2022

Michael Tonello

Packaging Quality Control Inspector

17 Nov 2022



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