

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: 10137325
Expiration Date: 07/2023
Storage Temperature: -20°C

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

Glycerol , 500 μ g/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	10137324	Pass	
B6004SVIAL	rCutSmart™ Buffer	10132770	Pass	

Assay Name/Specification	Lot # 10137325
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.	
donversion to the nicked form as determined by agarose ger electrophoresis.	
Protein Purity Assay (SDS-PAGE)	Pass
Srfl is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue	
detection.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 μl reaction in CutSmart® Buffer containing 1 μg of pNEB193-Srfl DNA and a	rass
minimum of 20 units of Srfl incubated for 16 hours at 37°C results in a DNA pattern	
free of detectable nuclease degradation as determined by agarose gel	
electrophoresis.	
Lineting and Departing (Tamping Hotel and A	Dane
Ligation and Recutting (Terminal Integrity)	Pass
After a 20-fold over-digestion of pNEB193-Srfl DNA with Srfl, ~75% of the DNA	
fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated	



R0629L / Lot: 10137325

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.

Penghaa Zhang Production Scientist

11 Feb 2022

Michael Tonello

Packaging Quality Control Inspector

11 Feb 2022



R0629L / Lot: 10137325

Page 2 of 2