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New England Biolabs Certificate of Analysis

Product Name: Srfl
Catalog Number: R0629S
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: 10122891
Expiration Date: 03/2023
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	
R0629SVIAL	Srfl	10122889	Pass	
B6004SVIAL	rCutSmart™ Buffer	10124441	Pass	

Assay Name/Specification	Lot # 10122891
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart® Buffer containing 1 µg of pNEB193-Srfl DNA and a 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.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of pNEB193-SrfI DNA with SrfI, ~75% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with SrfI.	Pass
Functional Testing (15 minute Digest) 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.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and	Pass



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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.

Pengha Zhang Production Scientist

18 Nov 2021

Michael Tonello

Packaging Quality Control Inspector

18 Nov 2021



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