

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.

Lot Number: 10034051
Expiration Date: 07/2020
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	10034052	Pass	
B7204SVIAL	CutSmart® Buffer	10031566	Pass	

Assay Name/Specification	Lot # 10034051
Ligation and Recutting (Terminal Integrity) 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 fragments, >95% can be recut with Srfl.	Pass
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
Protein Purity Assay (SDS-PAGE) Srfl is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	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	Pass



R0629L / Lot: 10034051

Page 1 of 2

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

Stephanie Cornelio Production Scientist

Stephoni Onetto

15 Jan 2019

Michael Tonello

Packaging Quality Control Inspector

18 Mar 2019



R0629L / Lot: 10034051

Page 2 of 2