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New England Biolabs Certificate of Analysis

Product Name: ScrFl
Catalog Number: R0110S
Concentration: 5,000 U/ml

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

of Lambda DNA in rCutSmart Buffer in 1 hour at 37°C in a total

reaction volume of 50 μl.

Packaging Lot Number: 10207336
Expiration Date: 09/2025
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 250 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

0.15% Triton X-100, 200 μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R0110S v2.0

ScrFI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0110SVIAL	ScrFI	10207321	Pass	
B6004SVIAL	rCutSmart™ Buffer	10202497	Pass	

Assay Name/Specification	Lot # 10207336
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 15 units of ScrFl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Functional Testing (15 minute Digest) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of Lambda DNA and 1 µl of ScrFl incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity) After a 2-fold over-digestion of Lambda DNA with ScrFI, 95% can be recut with ScrFI.	Pass
Non-Specific DNase Activity (16 hour) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 5 units of ScrFl incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. NOTE: although no nuclease degradation is detected under these conditions, extended	Pass



R0110S / Lot: 10207336

Page 1 of 2

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

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YunJie Sun \
Production Scientist
01 Sep 2023

Josh Hersey

Packaging Quality Control Inspector

22 Sep 2023



R0110S / Lot: 10207336

Page 2 of 2