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New England Biolabs Certificate of Analysis

Product Name: Spel-HF®
Catalog Number: R3133L
Concentration: 20,000 U/ml

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

of pXba-Xbal DNA in 1 hour at 37°C in a total reaction volume of 50

μl.

Lot Number: 10027036
Expiration Date: 11/2020
Storage Temperature: -20°C

Storage Conditions: 250 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 0.15% Triton® X-100, 200 µg/ml BSA

Specification Version: PS-R3133S/L v2.0

Spel-HF® Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R3133LVIAL	Spel-HF®	10027034	Pass
B7204SVIAL	CutSmart® Buffer	10021116	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10021128	Pass

Assay Name/Specification	Lot # 10027036
Protein Purity Assay (SDS-PAGE) Spel-HF® is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in CutSmart® Buffer containing 1 μg of pXba-Xbal digested DNA and a minimum of 100 units of Spel-HF® 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 T7 DNA with Spel-HF®, >95% 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 Spel-HF®.	Pass
Blue-White Screening (Terminal Integrity) A sample of LITMUS28 vector linearized with a 10-fold excess of Spel-HF®, religated	Pass



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

for 4 hours at 37°C releases <0.1% of the total radioactivity.

Tony Spear-Alfonso Production Scientist 27 Sep 2018 Michael Tonello

Packaging Quality Control Inspector

02 Nov 2018



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