

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-XbaI DNA in 1 hour at 37°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10154631
Expiration Date: 04/2024
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 [®]	10147568	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10152092	Pass
B6004SVIAL	rCutSmart [™] Buffer	10153335	Pass

Assay Name/Specification	Lot # 10154631
Protein Purity Assay (SDS-PAGE) Spel-HF [®] is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Blue-White Screening (Terminal Integrity) A sample of LITMUS28 vector linearized with a 10-fold excess of Spel-HF [®] , religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart [®] Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 60 units of Spel-HF [®] incubated for 4 hours at 37°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart [®] Buffer containing 1 µg of pXba-XbaI digested DNA and a minimum of 100 units of Spel-HF [®] incubated for 16 hours at 37°C results in a DNA	Pass

