

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: Spel
Catalog Number: R0133M
Concentration: 50,000 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.

Packaging Lot Number: 10060304
Expiration Date: 11/2021
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-R0133T/M v2.0

Spel Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0133MVIAL	Spel	10060303	Pass
B7204SVIAL	CutSmart® Buffer	10053983	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10053978	Pass

Assay Name/Specification	Lot # 10060304
Protein Purity Assay (SDS-PAGE)	Pass
Spel is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in CutSmart® Buffer containing 1 µg of pXba-Xbal digested DNA and a minimum of 50 units of Spel incubated for 16 hours at 37°C results in a DNA pattern	
ree of detectable nuclease degradation as determined by agarose gel electrophoresis.	
Endonuclease Activity (Nicking)	Pass
A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled PhiX174 DNA and	
a minimum of 50 units of Spel incubated for 4 hours at 37°C results in <20%	
conversion to the nicked form as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and	
double-stranded [3H] E. coli DNA and a minimum of 50 units of Spel incubated for 4	



R0133M / Lot: 10060304

Page 1 of 2

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

Production Scientist 01 Oct 2019

be recut with Spel.

Michael Tonello

Packaging Quality Control Inspector

25 Nov 2019



R0133M / Lot: 10060304

Page 2 of 2