

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: Bsp1286I
Catalog Number: R0120S
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 1 hour at 37°C in 50 µl of reaction buffer.

Lot Number: 10032386
Expiration Date: 12/2020
Storage Temperature: -20°C

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

Glycerol , 400 μg/ml BSA

Specification Version: PS-R0120S/L v1.0

Bsp1286l Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0120SVIAL	Bsp1286l	10032387	Pass	
B7204SVIAL	CutSmart® Buffer	10021125	Pass	

Assay Name/Specification	Lot # 10032386
Exonuclease Activity (Radioactivity Release) 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 Bsp1286l incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with Bsp1286I, >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 Bsp1286I.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 5 Units of Bsp1286l incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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



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Tony Spear-Alfonso **Production Scientist** 10 Dec 2018

Josh Hersey Packaging Quality Control Inspector

17 Jan 2019

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