NEW ENGLAND BioLabs Inc.
be INSPIRED drive DISCOVERY stay GENUINE
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.*
Packaging Lot Number:	*10148107*
Expiration Date:	*04/2024*
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*

Bsp1286I Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
R0120SVIAL	Bsp1286I	10148106	**Pass**
B6004SVIAL	rCutSmart™ Buffer	10148729	**Pass**

Assay Name/Specification	**Lot # 10148107**
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [^{3}H] E. coli DNA and a minimum of 50 units of Bsp1286I incubated for 4 hours at 37ºC releases <0.1% of the total radioactivity.	**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 Bsp1286I incubated for 16 hours at 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**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 16ºC. Of these ligated fragments, >95% can be recut with Bsp1286I.	**Pass**

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

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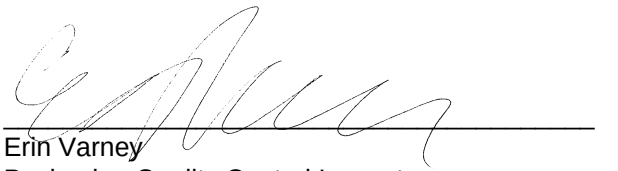
Penghua Zhang
Production Scientist
11 May 2022



Erin Varney
Packaging Quality Control Inspector
11 May 2022