

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: 10122888
Expiration Date: 09/2023
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	10122887	Pass
B6004SVIAL	rCutSmart™ Buffer	10123108	Pass

Assay Name/Specification	Lot # 10122888
<p>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 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	Pass
<p>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.</p>	Pass
<p>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 Bsp1286I incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.</p>	Pass

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.



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19 Oct 2021



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Packaging Quality Control Inspector
19 Oct 2021