

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: 10040192
Expiration Date: 03/2021
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	10040193	Pass
B7204SVIAL	CutSmart® Buffer	10036665	Pass

Assay Name/Specification	Lot # 10040192
<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
<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>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

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



Doreen Duquette
Production Scientist
08 Mar 2019



Michael Tonello
Packaging Quality Control Inspector
22 Mar 2019