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## New England Biolabs Certificate of Analysis

Product Name: BstEll
Catalog Number: R0162S
Concentration: 10,000 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 60°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10086406
Expiration Date: 09/2022
Storage Temperature: -20°C

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

Glycerol, 200 µg/ml BSA

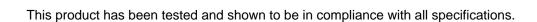
Specification Version: PS-R0162S/L v1.0

BstEll Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0162SVIAL	BstEII	10082798	Pass	
B7203SVIAL	NEBuffer™ 3.1	10085493	Pass	

Assay Name/Specification	Lot # 10086406
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 50 Units of BstEll incubated for 16 hours at 60°C results in a DNA pattern free of	
detectable nuclease degradation as determined by agarose gel electrophoresis.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 10-fold over-digestion of Lambda DNA with BstEII, >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 BstEII.	
Evenueleses Activity (Redissetivity Release)	Pass
Exonuclease Activity (Radioactivity Release)  A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and	Pass
double-stranded [3H] E. coli DNA and a minimum of 50 units of BstEII incubated for	
4 hours at 60°C releases <0.1% of the total radioactivity.	
Endonuclease Activity (Nicking)	Pass
A 50 μl reaction in NEBuffer 3.1 containing 1 μg of supercoiled PhiX174 DNA and a	
minimum of 30 units of BstEII incubated for 4 hours at 60°C results in <10%	
conversion to the nicked form as determined by agarose gel electrophoresis.	



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Stephanie Cornelio Production Scientist 11 Nov 2020 Michael Tonello

Packaging Quality Control Inspector

11 Nov 2020