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New England Biolabs Certificate of Analysis

Product Name: Bsu36l
Catalog Number: R0524L
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA (Hind III digest) in 1 hour at 37°C in a total

reaction volume of 50 μl.

Packaging Lot Number: 10067216
Expiration Date: 01/2022
Storage Temperature: -20°C

Storage Conditions: 250 mM NaCl , 10 mM Tris-HCl (7.4), 1 mM DTT , 0.1 mM EDTA , 50 %

Glycerol, 0.15 % TritonX-100, 200 µg/ml BSA

Specification Version: PS-R0524S/L v1.0

Bsu36l Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0524LVIAL	Bsu36l	10063226	Pass	
B7204SVIAL	CutSmart® Buffer	10064409	Pass	

Assay Name/Specification	Lot # 10067216
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and	Pass
a minimum of 10 units of Bsu36l incubated for 4 hours at 37°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.	
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda-HindIII DNA and a minimum of 30 units of Bsu36l incubated for 16 hours at 37°C results in a DNA	Pass
pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	
Ligation and Recutting (Terminal Integrity) After a 2-fold over-digestion of Lambda-HindIII DNA with Bsu36I, ~25% of the DNA fragments can be ligated with T4 DNA ligase in 4 hours at 25°C. Of these ligated fragments, >95% can be recut with Bsu36I.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	Pass



R0524L / Lot: 10067216

Page 1 of 2

Assay Name/Specification	Lot # 10067216
double-stranded [³H] E. coli DNA and a minimum of 100 units of Bsu36l incubated for	
4 hours at 37°C releases <0.1% of the total radioactivity.	

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

Anthony Francis

Production Scientist

03 Jan 2020

Minichiello

Packaging Quality Control Inspector

10 Feb 2020

