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New England Biolabs Certificate of Analysis

Product Name: Bsu36I 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.

Lot Number: 10020354 Expiration Date: 08/2020 -20°C Storage Temperature:

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

PS-R0524S/L v1.0 Specification Version:

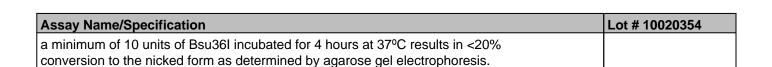
Bsu36l Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0524LVIAL	Bsu36l	10019267	Pass	
B7204SVIAL	CutSmart® Buffer	10015394	Pass	

Assay Name/Specification	Lot # 10020354
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	Pass
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.	
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
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 pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and	Pass



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

Tony Spear-Alfonso Production Scientist

23 Jul 2018

Michael Tonello

Packaging Quality Control Inspector

29 Aug 2018

