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## New England Biolabs Certificate of Analysis

Product Name: Bsu36l
Catalog Number: R0524S
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: 10122806
Expiration Date: 08/2023
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0524SVIAL	Bsu36l	10117490	Pass	
B6004SVIAL	rCutSmart™ Buffer	10121395	Pass	

Assay Name/Specification	Lot # 10122806
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 100 units of Bsu36l incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and 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.	Pass
<b>Ligation and Recutting (Terminal Integrity)</b> 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	Pass



R0524S / Lot: 10122806

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Assay Name/Specification	Lot # 10122806
pattern free of detectable nuclease degradation as determined by agarose gel	
electrophoresis.	

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

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Penghua Zhang Production Scientist

07 Oct 2021

Michael Tonello

Packaging Quality Control Inspector

07 Oct 2021

