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New England Biolabs Certificate of Analysis

Product Name: AsiSI
Catalog Number: R0630S
Concentration: 10,000 U/ml

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

of Xhol digested pXba in 1 hour at 37°C in a total reaction volume

of 50 μl.

Packaging Lot Number: 10061209
Expiration Date: 06/2021
Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 500 μg/ml BSA

Specification Version: PS-R0630S/L v1.0

AsiSI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0630SVIAL	AsiSI	10061208	Pass	
B7204SVIAL	CutSmart® Buffer	10061299	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10055732	Pass	

Assay Name/Specification	Lot # 10061209
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 10 units of AsiSI incubated for 4 hours at 37°C releases <0.2% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 2-fold over-digestion of pXbal (Xho digested) DNA with AsiSI, ~75% 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 AsiSI.	Pass
Non-Specific DNase Activity (16 hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pXbal (Xho digested) DNA and a minimum of 10 Units of AsiSI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. NOTE: although no nuclease degradation is detected under these conditions, extended incubations and/or high concentrations of this enzyme may result in star activity. See the product FAQ for recommended reaction conditions for	Pass



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Assay Name/Specification	Lot # 10061209
this enzyme.	

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

Stephanie Cornelio Production Scientist 05 Dec 2019 Minichiello
Packaging Qual

Packaging Quality Control Inspector 08 Jan 2020

