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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.

Lot Number: 10015994
Expiration Date: 03/2020
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				
<b>NEB Part Number</b>	<b>Component Description</b>	Lot Number	Individual QC Result	
R0630SVIAL	AsiSI	10015995	Pass	
B7204SVIAL	CutSmart® Buffer	10021118	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10021128	Pass	

Assay Name/Specification	Lot # 10015994
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 10 units of AsiSI incubated for 4 hours at 37°C releases <0.2% of the total radioactivity.	
Ligation and Recutting (Terminal Integrity) After a 2-fold over-digestion of pXbal (Xho digested) DNA with AsiSI, ~75% of the	Pass
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.	
Non-Specific DNase Activity (16 hour)	Pass
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	



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Assay Name/Specification	Lot # 10015994
this enzyme.	

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

Stephanie Cornelio Production Scientist

11 Sep 2018

Michael Tonello

Packaging Quality Control Inspector

06 Nov 2018

