

be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	AsiSI
Catalog Number:	R0630S
Concentration:	10,000 U/mI
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:	10049489
Expiration Date:	01/2021
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	10049490	Pass		
B7204SVIAL	CutSmart® Buffer	10043915	Pass		
B7024SVIAL	Gel Loading Dye, Purple (6X)	10043349	Pass		

Assay Name/Specification	Lot # 10049489
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart [™] Buffer containing 1 µg of a mixture of single and double-stranded [³ H] 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 # 10049489
this enzyme.	

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

David Guo

David Guo Production Scientist 20 Jun 2019

Michae m. 11

Michael Tonello Packaging Quality Control Inspector 15 Jul 2019

