

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:	AbaSI
Catalog Number:	R0665S
Concentration:	10,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μg of T4 wild-type phage DNA (fully ghmC-modified) in 1 hour at 25°C in a total reaction volume of 50 μl.
Packaging Lot Number:	10205103
Expiration Date:	08/2025
Storage Temperature:	-20°C
Storage Conditions:	10 mM Tris-HCl , 100 mM KCl , 1 mM DTT , 0.1 mM EDTA , 0.5 % Tween® 20 , 0.5 % IGEPAL® CA-630 , 50 % Glycerol, (pH 7.4 @ 25°C)
Specification Version:	PS-R0665S v3.0

AbaSI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0665SVIAL	AbaSI	10205104	Pass	
B6004SVIAL	rCutSmart™ Buffer	10198644	Pass	
B0706SVIAL	10X DTT	10191226	Pass	

Assay Name/Specification	Lot # 10205103
Endonuclease Activity (Nicking) A 50 μ I reaction in CutSmart® Buffer containing 1 μ g of supercoiled pBR322 DNA and a minimum of 30 units of AbaSI incubated for 4 hours at 25°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
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 100 units of AbaSI incubated for 4 hours at 25°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart® Buffer containing 1 µg of PhiX174-HaeIII DNA and a minimum of 50 units of AbaSI incubated for 16 hours at 25°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE)	Pass





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Assay Name/Specification	Lot # 10205103
AbaSI is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue	
detection.	

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

YunJie Sun Production Scientist 22 Aug 2023

Michae J. . /

Michael Tonello Packaging Quality Control Inspector 24 Aug 2023

