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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: 10197877 Expiration Date: 06/2025 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	10197878	Pass	
B6004SVIAL	rCutSmart™ Buffer	10189224	Pass	
B0706SVIAL	10X DTT	10191226	Pass	

Assay Name/Specification	Lot # 10197877
Endonuclease Activity (Nicking) A 50 μl reaction in CutSmart® Buffer containing 1 μg 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 [³H] 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 # 10197877
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

07 Júl 2023

Michael Tonello

Packaging Quality Control Inspector

07 Jul 2023

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