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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: 10065377
Expiration Date: 01/2022
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 v2.0

AbaSI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0665SVIAL	AbaSI	10065376	Pass	
B7204SVIAL	CutSmart® Buffer	10071077	Pass	
B0706SVIAL	10X DTT	10039987	Pass	

Assay Name/Specification	Lot # 10065377
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 37°C releases <0.1% of the total radioactivity.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled pBR322 dcm+ DNA and a minimum of 30 units of AbaSI incubated for 4 hours at 16°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart® Buffer containing 1 µg of T4 GT7 (dC) 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 # 10065377
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.

Mala-Samaranayake-Production Scientist

16 Apr 2020

Minichiello

Packaging Quality Control Inspector

16 Apr 2020