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## New England Biolabs Certificate of Analysis

Product Name:	AbaSI
Catalog #:	R0665S
Concentration:	10,000 units/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.
<i>Lot</i> #:	0021605
Assay Date:	05/2016
Expiration Date:	5/2018
Storage Temp:	-20°C
Storage Conditions:	100 mM KCl , 10 mM Tris-HCl (7.4), 1 mM DTT , 0.1 mM EDTA , 50 % Glycerol , 0.5 % Tween-20 , 0.5 % IgepalCA- 630
Specification Version:	PS-R0665S v1.0
Effective Date:	27 Sep 2013

Assay Name/Specification (minimum release criteria)	Lot #0021605 Pass
<b>Endonuclease Activity (Nicking)</b> - A 50 $\mu$ l reaction in NEBuffer 4 containing 1 $\mu$ g 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.	
<b>Exonuclease Activity (Radioactivity Release)</b> - A 50 $\mu$ l reaction in NEBuffer 4 containing 1 $\mu$ g of a mixture of single and double-stranded [ <sup>3</sup> H] <i>E. coli</i> DNA and a minimum of 100 units of AbaSI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
<b>Non-Specific DNase Activity (16 Hour)</b> - A 50 $\mu$ l reaction in NEBuffer 4 containing 1 $\mu$ g 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
<b>Protein Purity Assay (SDS-PAGE)</b> - AbaSI is $\geq$ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass

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Authorized by Derek Robinson 27 Sep 2013



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Inspected by Mala Samaranayake 13 May 2016