

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 gbmC-modified) in 1 hour at 25°C in a total reaction volume of 50 µl.*
Lot #: *0021502*
Assay Date: *02/2015*
Expiration Date: *2/2017*
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 #0021502
Endonuclease Activity (Nicking) - A 50 µl reaction in NEBuffer 4 containing 1 µg of supercoiled pBR322 dcm+ DNA and a minimum of 30 units of <i>AbaSI</i> incubated for 4 hours at 16°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 NEBuffer 4 containing 1 µg of a mixture of single and double-stranded [³ H] <i>E. coli</i> DNA and a minimum of 100 units of <i>AbaSI</i> incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) - A 50 µl reaction in NEBuffer 4 containing 1 µg of T4 GT7 (dC) DNA and a minimum of 50 units of <i>AbaSI</i> 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) - <i>AbaSI</i> is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass



Authorized by
Derek Robinson
27 Sep 2013



Inspected by
Mala Samaranayake
20 Mar 2015

