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New England Biolabs Certificate of Analysis

Product Name: SnaBl
Catalog Number: R0130S
Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of T7 DNA in rCutSmart Buffer in 1 hour at 37°C in a total reaction

volume of 50 μl.

Packaging Lot Number: 10204461
Expiration Date: 05/2025
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 50 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200

μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R0130S/L v2.0

SnaBl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0130SVIAL	SnaBl	10187672	Pass	
B6004SVIAL	rCutSmart™ Buffer	10198641	Pass	

Assay Name/Specification	Lot # 10204461
Endonuclease Activity (Nicking) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 5 units of SnaBl incubated for 4 hours at 37°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 rCutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 50 units of SnaBl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of T7 DNA with SnaBI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with SnaBI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of T7 DNA and a minimum of 5 units of SnaBl incubated for 16 hours at 37°C results in a DNA pattern free of	Pass



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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

27 Apr 2023

Josh Hersey

Packaging Quality Control Inspector

21 Aug 2023



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