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New England Biolabs Certificate of Analysis

Product Name: SnaBl
Catalog Number: R0130M
Concentration: 25,000 U/ml

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

of T7 DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10077168
Expiration Date: 06/2022
Storage Temperature: -20°C

Storage Conditions: 50 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 μg/ml BSA

Specification Version: PS-R0130M v1.0

SnaBl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0130MVIAL	SnaBl	10076095	Pass	
B7204SVIAL	CutSmart® Buffer	10064409	Pass	

Assay Name/Specification	Lot # 10077168
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in CutSmart™ 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	
detectable nuclease degradation as determined by agarose gel electrophoresis.	
Ligation and Recutting (Terminal Integrity)	Pass
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 SnaBl.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	1 400
double-stranded [³ H] 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.	
Thous at 37°C releases <0.1% or the total radioactivity.	
Endonuclease Activity (Nicking)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and	
a minimum of 5 Units of SnaBI incubated for 4 hours at 37°C results in <20%	
conversion to the nicked form as determined by agarose gel electrophoresis.	



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This product has been tested and shown to be in compliance with all specifications.

Penghua Zhang

Production Scientist

22 Jul 2020

Michael Tonello

Packaging Quality Control Inspector

22 Jul 2020

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