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New England Biolabs Certificate of Analysis

Product Name: EnGen® Sau Cas9

Catalog Number: M0654T
Concentration: 20 µM
Packaging Lot Number: 10160292
Expiration Date: 08/2024
Storage Temperature: -20°C

Storage Conditions: 20 mM Tris-HCl, 300 mM NaCl, 0.1 mM TCEP, 50% Glycerol, (pH 7.5 @

25°)

Specification Version: PS-M0654T v1.0

EnGen® Sau Cas9 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0654TVIAL	EnGen® Sau Cas9	10156780	Pass	
B6003SVIAL	NEBuffer™ r3.1	10146824	Pass	

Assay Name/Specification	Lot # 10160292
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 3.1 containing 1 μg of supercoiled PhiX174 DNA and a minimum of 1 pmol of EnGen® Sau Cas9 incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 1 pmol of EnGen® Sau Cas9 incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Protein Purity Assay (SDS-PAGE) EnGen® Sau Cas9 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 pmol of EnGen® Sau Cas9 is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
Functional Testing (Targeted Digestion)	Pass



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

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Bhairavi Jani Production Scientist 01 Aug 2022 Erin Varney

Packaging Quality Control Inspector

01 Aug 2022



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