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New England Biolabs Certificate of Analysis

Product Name: EnGen® SpRY Cas9

Catalog Number: M0669M
Concentration: 20 µM
Packaging Lot Number: 10228642
Expiration Date: 01/2026
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 300 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 50% Glycerol (pH

7.4 @ 25°C)

Specification Version: PS-M0669T/M v1.0

EnGen® SpRY Cas9 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0669MVIAL	EnGen® SpRY Cas9	10227910	Pass	
B6003SVIAL	NEBuffer™ r3.1	10221488	Pass	

Assay Name/Specification	Lot # 10228642
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer™ r3.1 containing 1 μg of supercoiled PhiX174 DNA and a minimum of 1 picomole of EnGen® SpRY 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 [™] r3.1 containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 1 picomole of EnGen® SpRY Cas9 incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Functional Testing (Targeted Digestion) A 20 µl reaction in NEBuffer™ r3.1 containing 20 nM of 100 bp FAM and ROX-labeled double-stranded target DNA, 100 nM sgRNA, and 100 nM EnGen® SpRY Cas9 incubated for 30 minutes at 37°C results in ≥90% targeted digestion of the substrate DNA as determined by capillary electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer™ r3.1 containing 1 µg of Lambda DNA and a minimum of 1 picomole of EnGen® SpRY Cas9 incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass



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

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Jessica Cane Production Scientist 19 Jan 2024 Josh Hersey

Packaging Quality Control Inspector

29 Jan 2024



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