

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: EnGen® Spy dCas9 (SNAP-tag)

Catalog Number:M0652SConcentration: $1 \mu M$ Unit Definition:N/A

Packaging Lot Number: 10092136
Expiration Date: 08/2022
Storage Temperature: -20°C

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

Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0652S v1.0

EnGen® Spy dCas9 (SNAP-tag) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0652SVIAL	EnGen® Spy dCas9 (SNAP-tag®)	10081026	Pass	
B7203SVIAL	NEBuffer™ 3.1	10085493	Pass	

Assay Name/Specification	Lot # 10092136
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 1 pmol of EnGen® Spy dCas9 (SNAP-tag®) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) EnGen® Spy dCas9 (SNAP-tag®) 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® Spy dCas9 (SNAP-tag®) 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 (EnGen® Spy dCas9 (SNAP-tag®), Gel Shift Assay) A 20 µl reaction in 1X NEBuffer 3.1 containing 20 nM 100 bp FAM labeled double stranded target DNA, 20 nM TAMRA-labeled off target DNA, 100 nM sgRNA and 100 nM EnGen® Spy dCas9 (SNAP-tag®) incubated for 15 minutes at 37°C results in ≥90%	Pass



M0652S / Lot: 10092136

Page 1 of 2

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.

Bhairavi Jani Production Scientist

24 Nov 2020

Josh Hersey

Packaging Quality Control Inspector

24 Nov 2020



M0652S / Lot: 10092136

Page 2 of 2