

New England Biolabs Certificate of Analysis

Product Name: *Scs PUS1*
Catalog Number: *M0526S*
Concentration: *100 pmol/μl*
Packaging Lot Number: *10145561*
Expiration Date: *03/2024*
Storage Temperature: *-20°C*
Storage Conditions: *200 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, (pH 7.4 @ 25°C)*
Specification Version: *PS-M0526S v1.0*

Scs PUS1 Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0526SVIAL	Scs PUS1	10145560	Pass
B6001SVIAL	NEBuffer™ r1.1	10102943	Pass

Assay Name/Specification	Lot # 10145561
Functional Testing (Scs PUS1) A 100 μl reaction in NEBuffer 1.1 containing 85 pmol RNA 5'-AGAGAUCCUAUUUUUGGCAAUCAAAUCGGGAUUCCGGAUA-3' and 100 pmol Scs PUS1 incubated for 2 hours at 30 °C results in ≥15% conversion of U to pseudoU as determined by nucleoside digestion and mass spectrometry analysis.	Pass
Protein Purity Assay (SDS-PAGE) Scs PUS1 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
RNase Activity Assay (4 Hour Digestion) A 10 μl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 μl of Scs PUS1 is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 1.1 containing 1 μg of supercoiled PhiX174 DNA and a minimum of 5 μl of Scs PUS1 incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass

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

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Jenna Ware
Production Scientist
26 May 2022



Erin Varney
Packaging Quality Control Inspector
26 May 2022