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New England Biolabs Certificate of Analysis

Product Name: Sce PUS1
Catalog Number: M0526S
Concentration: 100 pmol/µl
Packaging Lot Number: 10184218
Expiration Date: 03/2025
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

| Sce PUS1 Component List | | | | |
|-------------------------|-----------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| M0526SVIAL | Sce PUS1 | 10179326 | Pass | |
| B6001SVIAL | NEBuffer™ r1.1 | 10154035 | Pass | |

| Assay Name/Specification | Lot # 10184218 |
|--|----------------|
| 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 Sce PUS1 incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis. | Pass |
| Functional Testing (Sce PUS1) A 100 µl reaction in NEBuffer 1.1 containing 85 pmol RNA 5'- AGAGAUCCUAUUUUUGGCAAUCAAAUCGGGAUUCCGGAUA-3' and 100 pmol Sce 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) Sce 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 Sce 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 |



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

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Jenna Ware Production Scientist

24 Mar 2023

Michael Tonello

Packaging Quality Control Inspector

24 Mar 2023