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New England Biolabs Certificate of Analysis

Product Name: Styl-HF®
Catalog Number: R3500S
Concentration: 20,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10161051
Expiration Date: 08/2024
Storage Temperature: -20°C

Storage Conditions: 50 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 µg/ml BSA

Specification Version: PS-R3500S/L v1.0

| Styl-HF® Component List | | | | |
|-------------------------|------------------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| R3500SVIAL | Styl-HF® | 10161050 | Pass | |
| B7024AVIAL | Gel Loading Dye, Purple (6X) | 10161525 | Pass | |
| B6004SVIAL | rCutSmart™ Buffer | 10162781 | Pass | |

| Assay Name/Specification | Lot # 10161051 |
|---|----------------|
| Non-Specific DNase Activity (16 Hour) | Pass |
| A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of | |
| 100 Units of Styl-HF™ incubated for 16 hours at 37°C results in a DNA pattern free | |
| of detectable nuclease degradation as determined by agarose gel electrophoresis. | |
| Ligation and Recutting (Terminal Integrity) | Pass |
| After a 50-fold over-digestion of Lambda DNA with Styl-HF™, >95% of the DNA | |
| fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated | |
| fragments, >95% can be recut with Styl-HF™. | |
| Endonuclease Activity (Nicking) | Pass |
| A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and | |
| a minimum of 20 Units of Styl-HF™ incubated for 4 hours at 37°C results in <10% | |
| conversion to the nicked form as determined by agarose gel electrophoresis. | |
| Exonuclease Activity (Radioactivity Release) | Pass |
| A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and | |
| double-stranded [³H] E. coli DNA and a minimum of 100 units of Styl-HF™ incubated | |



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| Assay Name/Specification | Lot # 10161051 |
|--|----------------|
| for 4 hours at 37°C releases <0.1% of the total radioactivity. | |

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.

YunJie Sun

Production Scientist

22 Aug 2022

Michael Tonello

Packaging Quality Control Inspector

27 Sep 2022



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