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New England Biolabs Certificate of Analysis

Product Name: Tte-UvrD Helicase

Catalog Number: M1202S
Concentration: 20 µg/ml
Packaging Lot Number: 10157341
Expiration Date: 09/2023
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl , 100 mM KCl , 1 mM DTT , 0.1 mM EDTA , 0.1 %

Triton®X-100, 50 % Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M1202S v1.0

| Tte-UvrD Helicase Component List | | | | |
|----------------------------------|---------------------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| P0756SVIAL | Adenosine 5'-Triphosphate (ATP) | 10153222 | Pass | |
| M1202SVIAL | Tte-UvrD Helicase | 10115886 | Pass | |
| B0537SVIAL | Isothermal Amplification Buffer | 10146963 | Pass | |

| Assay Name/Specification | Lot # 10157341 |
|--|----------------|
| 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 µl of Tte-UvrD Helicase 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 |
| Endonuclease Activity (Nicking) A 50 μl reaction in CutSmart® Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 2 μg of Tte-UvrD Helicase incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis. | Pass |
| Protein Purity Assay (SDS-PAGE) Tte-UvrD Helicase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection. | Pass |
| Non-Specific DNase Activity (16 Hour) A 50 μl reaction in CutSmart® Buffer containing 1 μg of Lambda-HindIII DNA and a minimum of 2 μg of Tte-UvrD Helicase 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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| Functional Testing (ATP-dependent LAMP Inhibition) Tte-UvrD Helicase is tested for ATP-dependent inhibition of a LAMP reaction and suppression of amplification in a no template control reaction. | Pass |
| Exonuclease Activity (Radioactivity Release) 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 2 µg of Tte-UvrD Helicase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity. | Pass |

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

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Jenna Ware Production Scientist 07 Jul 2022 Erin Varney

Packaging Quality Control Inspector

07 Jul 2022



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