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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: 10115887
Expiration Date: 07/2023
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)	10109057	Pass
M1202SVIAL	Tte-UvrD Helicase	10115886	Pass
B0537SVIAL	Isothermal Amplification Buffer	10105662	Pass

Assay Name/Specification	Lot # 10115887
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
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
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



M1202S / Lot: 10115887

Page 1 of 2

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

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Jenna Ware Production Scientist 08 Oct 2021 Michael Tonello

Packaging Quality Control Inspector

08 Oct 2021



M1202S / Lot: 10115887

Page 2 of 2