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New England Biolabs Certificate of Analysis

Product Name: Tte-UvrD Helicase

Catalog Number: M1202S
Concentration: 20 µg/ml
Lot Number: 10041635
Expiration Date: 01/2021
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)	10034352	Pass
M1202SVIAL	Tte-UvrD Helicase	10041595	Pass
B0537SVIAL	Isothermal Amplification Buffer	10035085	Pass

Assay Name/Specification	Lot # 10041635	
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	
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	
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	
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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This product has been tested and shown to be in compliance with all specifications.

Alicia Bielik

Blue detection.

Production Scientist 25 Jan 2019

Michael Tonello

Packaging Quality Control Inspector

02 Apr 2019

