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New England Biolabs Certificate of Analysis

Product Name: Tte-UvrD Helicase

Catalog Number: M1202S
Concentration: 20 µg/ml
Lot Number: 10035793
Expiration Date: 11/2020
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	10033825	Pass	
B0537SVIAL	Isothermal Amplification Buffer	10032873	Pass	

Assay Name/Specification	Lot # 10035793
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
Protein Purity Assay (SDS-PAGE) Tte-UvrD Helicase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA	Pass



M1202S / Lot: 10035793

Page 1 of 2

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

Tony Spear-Alfonso Production Scientist

16 Jan 2019

Michael Tonello

Packaging Quality Control Inspector

31 Jan 2019



M1202S / Lot: 10035793

Page 2 of 2