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New England Biolabs Certificate of Analysis

Product Name: Isothermal Amplification Buffer

Catalog Number: B0537S

Concentration: 10 X Concentrate

Lot Number: 10034533
Expiration Date: 11/2020
Storage Temperature: -20°C

Specification Version: PS-B0537S v1.0

Composition (1X): 20 mM Tris-HCl, 50 mM KCl, 10 mM (NH4)2SO4, 2 mM MgSO4, 0.1 % Tween®

20, (pH 8.8 @ 25°C)

Isothermal Amplification Buffer Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B0537SVIAL	Isothermal Amplification Buffer	10032873	Pass

Assay Name/Specification	Lot # 10034533
Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 2X Isothermal Amplification Buffer containing 1 µg of	Pass
supercoiled PhiX174 DNA incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	
Non-Specific DNase Activity (16 hour, Buffer) A 50 μl reaction in 2X Isothermal Amplification Buffer containing 1 μg of T3 DNA in addition to a reaction containing Lambda-HindIII DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
pH (buffers/solutions) The pH of 10X Isothermal Amplification Buffer is between pH 8.7 and 8.9 at 25°C.	Pass
Phosphatase Activity (pNPP, Buffer) A 200 µl reaction in 1M Diethanolamine @ pH 9.8 and 0.5 mM MgCl2 containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 40 µl Isothermal Amplification Buffer incubated for 4 hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass
qPCR DNA Contamination (E. coli Genomic, Buffer) A minimum of 1 μl of Isothermal Amplification Buffer is screened for the presence of	Pass



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by gel electrophoresis using fluorescent detection.

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

Tony Spear-Alfonso Production Scientist

16 Jan 2019

Josh Hersey

Packaging Quality Control Inspector

17 Jan 2019

