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New England Biolabs Certificate of Analysis

Product Name: Isothermal Amplification Buffer

Catalog Number: B0537S

Concentration: 10 X Concentrate

Packaging Lot Number: 10063244
Expiration Date: 01/2023
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	10063855	Pass	

Assay Name/Specification	Lot # 10063244
pH (buffers/solutions) The pH of 10X Isothermal Amplification Buffer is between pH 8.7 and 8.9 at 25°C.	Pass
qPCR DNA Contamination (E. coli Genomic, Buffer) A minimum of 1 μl of Isothermal Amplification Buffer is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.	Pass
RNAse Activity Assay (4 Hour 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 Isothermal Amplification Buffer is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	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



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

Christie Vazquez Production Scientist

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22 Jan 2020

Michael Tonello

Packaging Quality Control Inspector

05 Feb 2020



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