

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: Isothermal Amplification Buffer II Pack

Catalog Number: B0374S

Concentration: 10 X Concentrate

Packaging Lot Number: 10126480
Expiration Date: 05/2023
Storage Temperature: -20°C

Specification Version: PS-B0374S v2.0

Composition (1X): 20 mM Tris-HCl, 10 mM (NH4)2SO4, 150 mM KCl, 2 mM MgSO4, 0.1 %

Tween® 20, (pH 8.8 @ 25°C)

Isothermal Amplification Buffer II Pack Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
B0374SVIAL	Isothermal Amplification Buffer II Pack	10112866	Pass	

Assay Name/Specification	Lot # 10126480
Endonuclease Activity (Nicking, Buffer) A 50 μl reaction in 2X Isothermal Amplification Buffer II containing 1 μg of supercoiled PhiX174 DNA incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
pH (buffers/solutions) The pH of 10X Isothermal Amplification Buffer II 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 10X Isothermal Amplification Buffer II 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 II 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)	Pass



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

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Christie Vazquez Production Scientist 14 Oct 2021

determined by agarose gel electrophoresis.

Michael Tonello

Packaging Quality Control Inspector

14 Oct 2021



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