

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: 10061453
Expiration Date: 12/2021
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	10047131	Pass	

Assay Name/Specification	Lot # 10061453
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
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 2X Isothermal Amplification Buffer II 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 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	Pass



B0374S / Lot: 10061453

Page 1 of 2

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

David Guo Production Scientist

09 Jul 2019

Michael Tonello

Packaging Quality Control Inspector

22 Nov 2019



B0374S / Lot: 10061453

Page 2 of 2