

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: 10173741
Expiration Date: 08/2025
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
B0374SVIAL	Isothermal Amplification Buffer II Pack	10157596	Pass	

Assay Name/Specification	Lot # 10173741
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 2X Isothermal Amplification Buffer II containing 1 µg of T3 or T7 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
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 II incubated for 4 hours at 37°C results in no detectable degradation of the RNA as determined by gel electrophoresis using fluorescent detection.	Pass
<b>qPCR DNA Contamination (E. coli Genomic, Buffer)</b> 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
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	Pass



B0374S / Lot: 10173741

Page 1 of 2

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Trinh Nguyen Production Scientist 12 Aug 2022

12127y

Michael Tonello

Packaging Quality Control Inspector

02 Dec 2022



B0374S / Lot: 10173741

Page 2 of 2