

## New England Biolabs Certificate of Analysis

**Product Name:** Monarch® Buffer BY  
**Catalog Number:** T1121L  
**Packaging Lot Number:** 10270612  
**Expiration Date:** 09/2027  
**Storage Temperature:** 25°C  
**Specification Version:** PS-T1121L v1.0

Monarch® Buffer BY Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
T1121-2	Monarch® Buffer BY	10257597	Pass

Assay Name/Specification	Lot # 10270612
<b>Endonuclease Activity (Nicking)</b> A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 10 µl of Monarch® Buffer BY incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	<b>Pass</b>
<b>Non-Specific DNase Activity (16 Hour)</b> A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of PhiX174-HaeIII DNA and a minimum of 10 µl of Monarch® Buffer BY incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	<b>Pass</b>

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

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28 Oct 2024



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16 Dec 2024