

New England Biolabs Certificate of Analysis

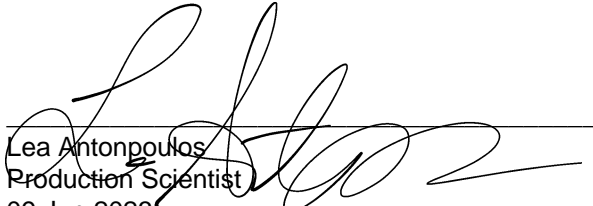
Product Name: *Random Primer Mix*
Catalog Number: *S1330S*
Concentration: *60 µM*
Packaging Lot Number: *10208809*
Expiration Date: *03/2026*
Storage Temperature: *-20°C*
Specification Version: *PS-S1330S v2.0*
Composition (1X): *1 mM dATP, 1 mM dCTP, 1 mM dGTP, 1 mM dTTP, 35 µM Hexamers, 25 µM dT(23)VN supplied in ultrapure water.*

Random Primer Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1330SVIAL	Random Primer Mix	10194850	Pass

Assay Name/Specification	Lot # 10208809
<p>Endonuclease Activity (Nicking) A 25 µl reaction in NEBuffer 2 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 5 µl of Random Primer Mix incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.</p>	Pass
<p>Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2 containing 1 µg of T3 or T7 DNA in addition to a reaction containing Lambda-HindIII DNA and a minimum of 5 µl of Random Primer Mix incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	Pass
<p>Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl₂ containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 20 µl of Random Primer Mix incubated for 4 hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.</p>	Pass
<p>RNase Activity (Extended 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 Random Primer Mix is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.</p>	Pass

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

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Lea Antonopoulos
Production Scientist
09 Jun 2023


Josh Hersey
Packaging Quality Control Inspector
01 Oct 2023