

New England Biolabs Certificate of Analysis

Product Name: *Random Primer Mix*
Catalog #: *S1330S*
Concentration: *60 μM*
Lot #: *0091709*
Assay Date: *09/2017*
Expiration Date: *9/2020*
Storage Temp: *-20°C*
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.*
Specification Version: *PS-S1330S v1.0*
Effective Date: *20 Jan 2017*

Assay Name/Specification (minimum release criteria)	Lot #0091709
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.	Pass
Non-Specific DNase Activity (16 Hour) - A 50 μl reaction in NEBuffer 2 containing 1 μg of T3 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.	Pass
Phosphatase Activity (pNPP) - A 200 μl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl ₂ containing 2.5 mM <i>p</i> -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.	Pass
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.	Pass



Authorized by
Karen Moreira
20 Jan 2017



Inspected by
Tony Spear-Alfonso
22 Sep 2017

