

New England Biolabs Certificate of Analysis

Product Name: XRN-1
Catalog #: M0338S/L
Concentration: 1,000 units/ml
Unit Definition: One unit is defined as the amount of enzyme that digests 1 µg of phosphorylated yeast RNA in 60 minutes at 37°C.
Lot #: 0031805
Assay Date: 05/2018
Expiration Date: 05/2020
Storage Temp: -20°C
Storage Conditions: 20 mM Tris-HCl, 500 mM NaCl, 2 mM DTT, 0.1 mM EDTA, 0.1% Triton®X-100, 50% Glycerol, (pH 7.5 @ 25°C)
Specification Version: PS-M0338S/L v1.0
Effective Date: 06 Dec 2017

Assay Name/Specification (minimum release criteria)	Lot #0031805
Endonuclease Activity (Circular Single Stranded DNA) - A 50 µl reaction in NEBuffer 3 containing 1 µg of M13mp18 DNA and a minimum of 5 units of XRN-1 incubated for 4 hours at 37°C results in <10% conversion to linear DNA as determined by agarose gel electrophoresis.	Pass
Endonuclease Activity (Nicking) - A 50 µl reaction in NEBuffer 3 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 5 units of XRN-1 incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) - XRN-1 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass



Authorized by
Derek Robinson
06 Dec 2017



Inspected by
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01 May 2018

