

## 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 #:** 0031802  
**Assay Date:** 02/2018  
**Expiration Date:** 2/2020  
**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 #0031802
<b>Endonuclease Activity (Circular Single Stranded DNA)</b> - 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.	<b>Pass</b>
<b>Endonuclease Activity (Nicking)</b> - 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.	<b>Pass</b>
<b>Protein Purity Assay (SDS-PAGE)</b> - XRN-1 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	<b>Pass</b>



Authorized by  
Derek Robinson  
06 Dec 2017



Inspected by  
Bhairavi Jani  
20 Feb 2018

