

## New England Biolabs Certificate of Analysis

**Product Name:** XRN-1  
**Catalog Number:** M0338L  
**Concentration:** 1,000 U/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.  
**Packaging Lot Number:** 10066727  
**Expiration Date:** 02/2022  
**Storage Temperature:** -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

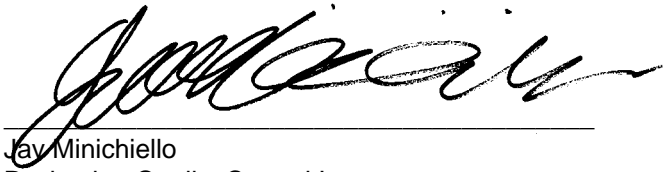
XRN-1 Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0338LVIAL	XRN-1	10066728	Pass
B7003SVIAL	NEBuffer™ 3	10048944	Pass

Assay Name/Specification	Lot # 10066727
<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.	Pass
<b>Protein Purity Assay (SDS-PAGE)</b> XRN-1 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
<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.	Pass

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



Bo Wu  
Production Scientist  
04 Feb 2020



Jay Minichiello  
Packaging Quality Control Inspector  
07 Feb 2020