

## 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:** 10235590  
**Expiration Date:** 12/2025  
**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	10229727	Pass
B7003SVIAL	NEBuffer™ 3	10173669	Pass

Assay Name/Specification	Lot # 10235590
<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>

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

*Nancy Considine*

---

Nancy Considine  
Production Scientist  
15 Dec 2022

*Michael Tonello*

---

Michael Tonello  
Packaging Quality Control Inspector  
26 Mar 2024