

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: 10178164
Expiration Date: 01/2025
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	10177400	Pass
B7003SVIAL	NEBuffer™ 3	10173669	Pass

Assay Name/Specification	Lot # 10178164
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
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
Protein Purity Assay (SDS-PAGE) XRN-1 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass

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

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Bo Wu
Production Scientist
13 Jan 2023



Michael Tonello
Packaging Quality Control Inspector
24 Jan 2023