

New England Biolabs Certificate of Analysis

Product Name: XRN-1
Catalog Number: M0338S
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: 10066730
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
M0338SVIAL	XRN-1	10066729	Pass
B7003SVIAL	NEBuffer™ 3	10048944	Pass

Assay Name/Specification	Lot # 10066730
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

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



Bo Wu
Production Scientist
04 Feb 2020



Michael Tonello
Packaging Quality Control Inspector
21 Feb 2020