

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.
Lot Number: 10028135
Expiration Date: 01/2021
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	10028137	Pass
B7003SVIAL	NEBuffer™ 3	0101802	Pass

Assay Name/Specification	Lot # 10028135
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.



Bhairavi Jani
Production Scientist
31 Dec 2018



Michael Tonello
Packaging Quality Control Inspector
02 Jan 2019