

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: 10102452
Expiration Date: 12/2022
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 | 10092711 | Pass |
| B7003SVIAL | NEBuffer™ 3 | 10091037 | Pass |

| Assay Name/Specification | Lot # 10102452 |
|---|----------------|
| Protein Purity Assay (SDS-PAGE) XRN-1 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection. | 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 |
| 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 |

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 for additional information.



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Production Scientist
24 Mar 2021



Michael Tonello
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24 Mar 2021