

New England Biolabs Certificate of Analysis

Product Name: Histone H3.1 Human Recombinant
Catalog Number: M2503S
Concentration: 1 mg/ml
Unit Definition: N/A
Packaging Lot Number: 10163378
Expiration Date: 09/2024
Storage Temperature: -20°C
Storage Conditions: 300 mM NaCl, 20 mM NaPO₄, 1 mM DTT, 1 mM EDTA, (pH 7.0 @ 25°C)
Specification Version: PS-M2503S v2.0

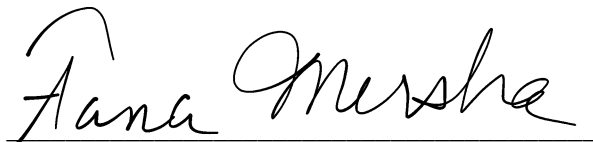
| Histone H3.1 Human Recombinant Component List | | | |
|---|---------------------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| M2503SVIAL | Histone H3.1 Human, Recombinant | 10156782 | Pass |

| Assay Name/Specification | Lot # 10163378 |
|--|----------------|
| Molecular Weight Determination (Mass Spectrometry) The molecular weight of Histone H3.1 Human, Recombinant is between 15,271.71 and 15,273.89 as determined by mass spectrometry analysis. | Pass |
| Protease Activity (Histones) A 12 µl reaction containing 7 µl of a standard mixture of proteins and a minimum of 5 µg of Histone H3.1 Human, Recombinant incubated for 4 hours at 37°C, results in no detectable degradation of the protein mixture as determined by SDS-PAGE with Coomassie Blue detection. | Pass |
| Protein Purity Assay (SDS-PAGE) Histone H3.1 Human, Recombinant is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection. | Pass |
| Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 2 containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 10 µg of Histone H3.1 Human, Recombinant incubated for 4 hours at 37°C releases <0.1% of the total radioactivity. | Pass |
| Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 2 containing 1 µg of supercoiled PhiX174 RF I DNA and a minimum of 10 µg of Histone H3.1 Human, Recombinant incubated for 4 hours at 37°C | Pass |

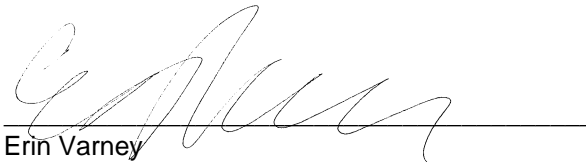
| Assay Name/Specification | Lot # 10163378 |
|--|----------------|
| results in <10% conversion to RFII as determined by agarose gel electrophoresis. | |

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

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Fana Mersha
Production Scientist
25 Aug 2022



Erin Varney
Packaging Quality Control Inspector
25 Aug 2022