

New England Biolabs Certificate of Analysis

Product Name: *Histone H3.3 Human Recombinant*
Catalog Number: *M2507S*
Concentration: *1 mg/ml*
Unit Definition: *N/A*
Packaging Lot Number: *10163376*
Expiration Date: *08/2024*
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-M2507S v2.0*


| Histone H3.3 Human Recombinant Component List | | | |
|-----------------------------------------------|---------------------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| M2507SVIAL | Histone H3.3 Human, Recombinant | 10163136 | Pass |

| Assay Name/Specification | Lot # 10163376 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Molecular Weight Determination (Mass Spectrometry) The molecular weight of Histone H3.3 Human, Recombinant is between 15,195.53 and 15,197.72 as determined by mass spectrometry analysis. | 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 H3.3 Human, Recombinant incubated for 4 hours at 37°C results in <10% conversion to RFI as determined by agarose gel electrophoresis. | 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 H3.3 Human, Recombinant incubated for 4 hours at 37°C releases <0.1% of the total radioactivity. | Pass |
| Protein Purity Assay (SDS-PAGE) Histone H3.3 Human, Recombinant is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection. | 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 H3.3 Human, Recombinant incubated for 4 hours at 37°C, results in no detectable degradation of the protein mixture as determined by SDS-PAGE with | Pass |

| Assay Name/Specification | Lot # 10163376 |
|---------------------------|----------------|
| Coomassie Blue detection. | |

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.



Fana Mersha
Production Scientist
25 Aug 2022



Erin Varney
Packaging Quality Control Inspector
25 Aug 2022