

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: 10105448
Expiration Date: 04/2023
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	10105449	Pass

Assay Name/Specification	Lot # 10105448
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
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 Coomassie Blue detection.	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
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,	Pass


Assay Name/Specification	Lot # 10105448
Recombinant incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	

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

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Fana Mersha
Production Scientist
29 Apr 2021



Michael Tonello
Packaging Quality Control Inspector
29 Apr 2021