

New England Biolabs Certificate of Analysis

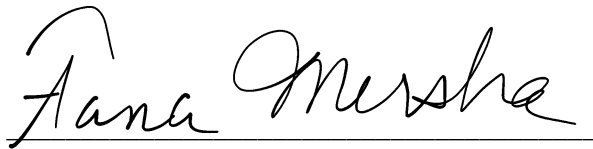
Product Name: Histone H1 Degree Human Recombinant
Catalog Number: M2501S
Concentration: 1 mg/ml
Unit Definition: N/A
Lot Number: 10028263
Expiration Date: 10/2020
Storage Temperature: -20°C
Storage Conditions: 300 mM NaCl, 20 mM NaPO₄, 1 mM EDTA, (pH 7.0 @ 25°C)
Specification Version: PS-M2501S v1.0

Histone H1 Degree Human Recombinant Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M2501SVIAL	Histone H1° Human, Recombinant	10027812	Pass


Assay Name/Specification	Lot # 10028263
Protein Purity Assay (SDS-PAGE) Histone H10 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 H10 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 H10 Human, Recombinant incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Molecular Weight Determination (Mass Spectrometry) The molecular weight of Histone H10 Human, Recombinant is between 20,730.49 and 20,732.57 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 H10 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 # 10028263
Coomassie Blue detection.	

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



Fana Mersha
Production Scientist
29 Oct 2018



Michael Tonello
Packaging Quality Control Inspector
30 Oct 2018