

New England Biolabs Certificate of Analysis

Product Name: *Histone H2A Human Recombinant*
Catalog Number: *M2502S*
Concentration: *1 mg/ml*
Unit Definition: *N/A*
Packaging Lot Number: *10158536*
Expiration Date: *07/2024*
Storage Temperature: *-20°C*
Storage Conditions: *300 mM NaCl, 20 mM NaPO₄, 1 mM EDTA, (pH 7.0 @ 25°C)*
Specification Version: *PS-M2502S v2.0*


Histone H2A Human Recombinant Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M2502SVIAL	Histone H2A Human, Recombinant	10158535	Pass

Assay Name/Specification	Lot # 10158536
Protease Activity (Histones) A 12 µl reaction containing 7 µl of a standard mixture of proteins and a minimum of 5 µg of Histone H2A 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 H2A Human, Recombinant is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Molecular Weight Determination (Mass Spectrometry) The molecular weight of Histone H2A Human, Recombinant is between 13,989.09 and 13,991.28 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 H2A 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 H2A Human,	Pass

Assay Name/Specification	Lot # 10158536
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
10 Aug 2022



Erin Varney
Packaging Quality Control Inspector
10 Aug 2022