

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: *10129603*
Expiration Date: *11/2023*
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	10128921	Pass

Assay Name/Specification	Lot # 10129603
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
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 RFII 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, 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 H2A Human, Recombinant is between 13,989.09 and	Pass

Assay Name/Specification	Lot # 10129603
13,991.28 as determined by mass spectrometry analysis.	

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

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Fana Mersha
Production Scientist
19 Jan 2022



Josh Hersey
Packaging Quality Control Inspector
19 Jan 2022