

be INSPIRED drive DISCOVERY stay GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name:	Histone H2A Human Recombinant
Catalog Number:	M2502S
Concentration:	1 mg/ml
Unit Definition:	N/A
Lot Number:	10013977
Expiration Date:	06/2020
Storage Temperature:	-20°C
Storage Conditions:	300 mM NaCl, 20 mM NaPO4, 1 mM EDTA, (pH 7.0 @ 25°C)
Specification Version:	PS-M2502S v1.0

Histone H2A Human Recombinant Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M2502SVIAL	Histone H2A Human, Recombinant	10013731	Pass	

Assay Name/Specification	Lot # 10013977
Protein Purity Assay (SDS-PAGE) Histone H2A Human, Recombinant is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
<b>Protease Activity (Histones)</b> A 12 $\mu$ l reaction containing 7 $\mu$ l of a standard mixture of proteins and a minimum of 5 $\mu$ g 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
<b>Endonuclease Activity (Nicking)</b> A 50 $\mu$ I reaction in NEBuffer 2 containing 1 $\mu$ g of supercoiled PhiX174 RF I DNA and a minimum of 10 $\mu$ g 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
<b>Molecular Weight Determination (Mass Spectrometry)</b> The molecular weight of Histone H2A Human, Recombinant is between 13,989.68 and 13,991.76 as determined by mass spectrometry analysis.	Pass
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 μl reaction in NEBuffer 2 containing 1 μg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 10 μg of Histone H2A Human,	Pass





be INSPIRED drive DISCOVERY stay GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

Assay Name/Specification	Lot # 10013977
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.

mishe

Fana Mersha Production Scientist 21 Jun 2018

Michae 11.

Michael Tonello Packaging Quality Control Inspector 21 Jun 2018

