NEW ENGLAND BioLabs Inc.
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240 County Road
Ipswich, MA 01938-2723
Tel 978-927-5054
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www.neb.com
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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:	*10074326*
Expiration Date:	*04/2022*
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	10074325	**Pass**

Assay Name/Specification	**Lot # 10074326**
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 37ºC 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 37ºC releases <0.1% of the total radioactivity.	**Pass**
Molecular Weight Determination (Mass Spectrometry) The molecular weight of Histone H2A Human, Recombinant is between 13,989.68 and 13,991.76 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 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	**Pass**

nqa ISO 9001 Registered Quality Management
nqa ISO 13485 Registered Medical Devices
nqa ISO 14001 Registered Environmental Management

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Assay Name/Specification	Lot # 10074326
using Coomassie Blue detection.	

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

Fana Mersha
Production Scientist
27 Apr 2020

Jay Minichiello
Packaging Quality Control Inspector
27 Apr 2020

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