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 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 H1º 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 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 [³H] E. coli DNA and a minimum of 10 µg of Histone H10 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 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**

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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