NEW ENGLAND BioLabs Inc.
be INSPIRED drive DISCOVERY stay GENUINE
240 County Road
Ipswich, MA 01938-2723
Tel 978-927-5054
Fax 978-921-1350
www.neb.com
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New England Biolabs
Certificate of Analysis

Product Name:	*Histone H4 Human Recombinant*
Catalog Number:	*M2504S*
Concentration:	*1 mg/ml*
Unit Definition:	*N/A*
Packaging Lot Number:	*10165538*
Expiration Date:	*09/2024*
Storage Temperature:	*-20°C*
Storage Conditions:	*300 mM NaCl, 20 mM NaPO4, 1 mM EDTA, (pH 7.0 @ 25°C)*
Specification Version:	*PS-M2504S v2.0*

Histone H4 Human Recombinant Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
M2504SVIAL	Histone H4 Human, Recombinant	10165537	**Pass**

Assay Name/Specification	**Lot # 10165538**
Protein Purity Assay (SDS-PAGE) Histone H4 Human, Recombinant is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	**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 H4 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**
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 H4 Human, Recombinant incubated for 4 hours at 37ºC releases <0.1% of the total radioactivity.	**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 H4 Human, Recombinant incubated for 4 hours at 37ºC results in <10% conversion to RFII as determined by agarose gel electrophoresis.	**Pass**
Molecular Weight Determination (Mass Spectrometry) The molecular weight of Histone H4 Human, Recombinant is between 11235.01 and	**Pass**

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Assay Name/Specification	Lot # 10165538
11237.15 as determined by mass spectrometry analysis.	

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Fana Mersha
Production Scientist
21 Sep 2022

Josh Hersey
Packaging Quality Control Inspector
26 Sep 2022