

## New England Biolabs Certificate of Analysis

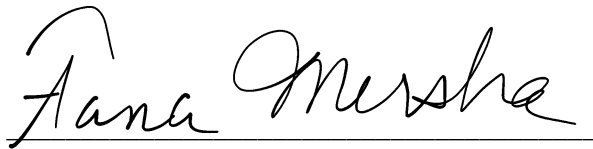
**Product Name:** Histone H4 Human Recombinant  
**Catalog Number:** M2504S  
**Concentration:** 1 mg/ml  
**Unit Definition:** N/A  
**Packaging Lot Number:** 10067103  
**Expiration Date:** 02/2022  
**Storage Temperature:** -20°C  
**Storage Conditions:** 300 mM NaCl, 20 mM NaPO<sub>4</sub>, 1 mM EDTA, (pH 7.0 @ 25°C)  
**Specification Version:** PS-M2504S v1.0

Histone H4 Human Recombinant Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M2504SVIAL	Histone H4 Human, Recombinant	10067104	Pass

Assay Name/Specification	Lot # 10067103
<b>Endonuclease Activity (Nicking)</b> 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 37°C results in <10% conversion to RFII as determined by agarose gel electrophoresis.	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 H4 Human, Recombinant incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
<b>Molecular Weight Determination (Mass Spectrometry)</b> The molecular weight of Histone H4 Human, Recombinant is between 11235.70 and 11237.78 as determined by mass spectrometry analysis.	Pass
<b>Protease Activity (Histones)</b> 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
<b>Protein Purity Assay (SDS-PAGE)</b> Histone H4 Human, Recombinant is ≥ 95% pure as determined by SDS-PAGE analysis using	Pass

Assay Name/Specification	Lot # 10067103
Coomassie Blue detection.	

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



Fana Mersha  
Production Scientist  
13 Feb 2020



Jay Minichiello  
Packaging Quality Control Inspector  
25 Feb 2020