

## New England Biolabs Certificate of Analysis


**Product Name:** Histone H3.1/H4 Tetramer Human, Recombinant  
**Catalog Number:** M2509S  
**Concentration:** 10  $\mu$ M  
**Unit Definition:** N/A  
**Packaging Lot Number:** 10204659  
**Expiration Date:** 07/2024  
**Storage Temperature:** -20°C  
**Storage Conditions:** 2 M NaCl, 20 mM Tris-HCl, 1 mM DTT, 1 mM EDTA, (pH 8.0 @ 25°C)  
**Specification Version:** PS-M2509S v1.0

Histone H3.1/H4 Tetramer Human, Recombinant Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M2509SVIAL	Histone H3.1/H4 Tetramer Human, Recombinant	10178081	Pass

Assay Name/Specification	Lot # 10204659
<b>Endonuclease Activity (Nicking)</b> A 50 $\mu$ l reaction in NEBuffer 2 containing 1 $\mu$ g of supercoiled PhiX174 RF I DNA and a minimum of 10 $\mu$ g of Histone H3.1/H4 Tetramer 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 $\mu$ l reaction in NEBuffer 2 containing 1 $\mu$ g of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 10 $\mu$ g of Histone H3.1/H4 Tetramer Human, Recombinant incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	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 10 $\mu$ g of Histone H3.1/H4 Tetramer 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 H3.1/H4 Tetramer Human, Recombinant is $\geq$ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass

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](http://www.neb.com/trademarks) for additional information.



Fana Mersha  
Production Scientist  
07 Aug 2023



Josh Hersey  
Packaging Quality Control Inspector  
08 Aug 2023