

## 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:** 10075383  
**Expiration Date:** 06/2021  
**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	10075384	Pass

Assay Name/Specification	Lot # 10075383
<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.

*Fana Mersha*

Fana Mersha  
Production Scientist  
13 Jul 2020

*Michael Tonello*

Michael Tonello  
Packaging Quality Control Inspector  
13 Jul 2020