

## New England Biolabs Certificate of Analysis

**Product Name:** Histone H2A/H2B Dimer Human, Recombinant  
**Catalog Number:** M2508S  
**Concentration:** 20  $\mu$ M  
**Unit Definition:** N/A  
**Packaging Lot Number:** 10061067  
**Expiration Date:** 12/2020  
**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-M2508S v1.0

Histone H2A/H2B Dimer Human, Recombinant Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M2508SVIAL	Histone H2A/H2B Dimer Human, Recombinant	10053926	Pass

Assay Name/Specification	Lot # 10061067
<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 H2A/H2B Dimer 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 H2A/H2B Dimer Human, Recombinant is $\geq$ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
<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 H2A/H2B Dimer 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 H2A/H2B Dimer Human, Recombinant incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass

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



Fana Mersha  
Production Scientist  
06 Dec 2019



Jay Minichiello  
Packaging Quality Control Inspector  
09 Dec 2019