

## New England Biolabs Certificate of Analysis

**Product Name:** Histone H2A/H2B Dimer Human, Recombinant  
**Catalog Number:** M2508S  
**Concentration:** 20 µM  
**Unit Definition:** N/A  
**Lot Number:** 10012474  
**Expiration Date:** 06/2019  
**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	10011643	Pass

Assay Name/Specification	Lot # 10012474
<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 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 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 H2A/H2B Dimer Human, Recombinant incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
<b>Protease Activity (Histones)</b> A 12 µl reaction containing 7 µl of a standard mixture of proteins and a minimum of 10 µg 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 ≥ 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  
08 Jun 2018

*Michael Tonello*

Michael Tonello  
Packaging Quality Control Inspector  
12 Jun 2018