

New England Biolabs Certificate of Analysis

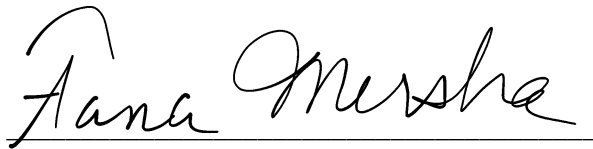
Product Name: *Histone H2B Human Recombinant*
Catalog Number: *M2505S*
Concentration: *1 mg/ml*
Unit Definition: *N/A*
Lot Number: *10044690*
Expiration Date: *05/2021*
Storage Temperature: *-20°C*
Storage Conditions: *300 mM NaCl, 20 mM NaPO₄, 1 mM EDTA, (pH 7.0 @ 25°C)*
Specification Version: *PS-M2505S v1.0*

Histone H2B Human Recombinant Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M2505SVIAL	Histone H2B Human, Recombinant	10044689	Pass

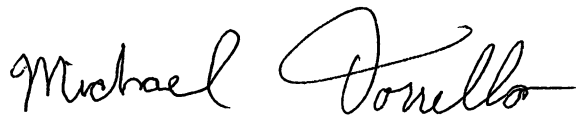
Assay Name/Specification	Lot # 10044690
Protein Purity Assay (SDS-PAGE) Histone H2B Human, Recombinant is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Protease Activity (Histones) A 12 µl reaction containing 7 µl of a standard mixture of proteins and a minimum of 5 µg of Histone H2B 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
Molecular Weight Determination (Mass Spectrometry) The molecular weight of Histone H2B Human, Recombinant is between 13,788.46 and 13,790.54 as determined by mass spectrometry analysis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 2 containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 10 µg of Histone H2B Human, Recombinant incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 2 containing 1 µg of supercoiled PhiX174 RF I DNA and a minimum of 10 µg of Histone H2B Human, Recombinant incubated for 4 hours at 37°C	Pass

Assay Name/Specification	Lot # 10044690
results in <10% conversion to RFII as determined by agarose gel electrophoresis.	

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



Fana Mersha
Production Scientist
14 May 2019



Michael Tonello
Packaging Quality Control Inspector
18 Jun 2019