

New England Biolabs Certificate of Analysis

Product Name: *Histone H2B Human Recombinant*
Catalog Number: *M2505S*
Concentration: *1 mg/ml*
Unit Definition: *N/A*
Packaging Lot Number: *10183250*
Expiration Date: *03/2025*
Storage Temperature: *-20°C*
Storage Conditions: *300 mM NaCl, 20 mM NaPO₄, 1 mM EDTA, (pH 7.0 @ 25°C)*
Specification Version: *PS-M2505S v2.0*

Histone H2B Human Recombinant Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M2505SVIAL	Histone H2B Human, Recombinant	10176570	Pass

Assay Name/Specification	Lot # 10183250
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 results in <10% conversion to RFII as determined by agarose gel electrophoresis.	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
Molecular Weight Determination (Mass Spectrometry) The molecular weight of Histone H2B Human, Recombinant is between 13,787.80 and 13,789.97 as determined by mass spectrometry analysis.	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
Protein Purity Assay (SDS-PAGE) Histone H2B Human, Recombinant is ≥ 95% pure as determined by SDS-PAGE analysis	Pass

Assay Name/Specification	Lot # 10183250
using Coomassie Blue detection.	

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 for additional information.



Fana Mersha
Production Scientist
07 Mar 2023



Michael Tonello
Packaging Quality Control Inspector
12 May 2023