

New England Biolabs Certificate of Analysis

Product Name: *Histone H3.2 Human Recombinant*
Catalog Number: *M2506S*
Concentration: *1 mg/ml*
Unit Definition: *N/A*
Packaging Lot Number: *10131852*
Expiration Date: *10/2023*
Storage Temperature: *-20°C*
Storage Conditions: *300 mM NaCl, 20 mM NaPO₄, 1 mM DTT, 1 mM EDTA, (pH 7.0 @ 25°C)*
Specification Version: *PS-M2506S v2.0*

Histone H3.2 Human Recombinant Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M2506SVIAL	Histone H3.2 Human, Recombinant	10123395	Pass

Assay Name/Specification	Lot # 10131852
Protein Purity Assay (SDS-PAGE) Histone H3.2 Human, Recombinant is $\geq 95\%$ pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Protease Activity (Histones) A 12 μ l reaction containing 7 μ l of a standard mixture of proteins and a minimum of 5 μ g of Histone H3.2 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
Exonuclease Activity (Radioactivity Release) A 50 μ l reaction in NEBuffer 2 containing 1 μ g of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 10 μ g of Histone H3.2 Human, Recombinant incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Endonuclease Activity (Nicking) A 50 μ l reaction in NEBuffer 2 containing 1 μ g of supercoiled PhiX174 RF I DNA and a minimum of 10 μ g of Histone H3.2 Human, Recombinant incubated for 4 hours at 37°C results in <10% conversion to RFI as determined by agarose gel electrophoresis.	Pass
Molecular Weight Determination (Mass Spectrometry) The molecular weight of Histone H3.2 Human, Recombinant is between 15,255.64 and	Pass


Assay Name/Specification	Lot # 10131852
15,257.80 as determined by mass spectrometry analysis.	

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

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Fana Mersha
Production Scientist
18 Aug 2022



Michael Tonello
Packaging Quality Control Inspector
18 Aug 2022