

New England Biolabs Certificate of Analysis

Product Name: *Histone H2A Human, Recombinant*
Catalog #: *M2502S*
Concentration: *1 mg/ml*
Unit Definition: *N/A*
Lot #: *0151712*
Assay Date: *12/2017*
Expiration Date: *12/2019*
Storage Temp: *-20°C*
Storage Conditions: *300 mM NaCl, 20 mM NaPO₄, 1 mM EDTA, (pH 7.0 @ 25°C)*
Specification Version: *PS-M2502S v1.0*
Effective Date: *22 Sep 2017*

Assay Name/Specification (minimum release criteria)	Lot #0151712
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 H2A 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] <i>E. coli</i> DNA and a minimum of 10 µg of Histone H2A 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 H2A Human, Recombinant is between 13,989.68 and 13,991.76 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 H2A 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 H2A Human, Recombinant is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass



Authorized by
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22 Sep 2017



Inspected by
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01 Dec 2017

