

New England Biolabs Product Specification

Product Name: *Histone H3.2 Human, Recombinant*
Catalog #: *M2506S*
Concentration: *1 mg/ml*
Unit Definition: *N/A*
Shelf Life: *24 months*
Storage Temp: *-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*
Effective Date: *19 Jan 2021*

Assay Name/Specification (minimum release criteria)

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 H3.2 Human, Recombinant incubated for 4 hours at 37°C results in <10% conversion to RFII as determined by agarose gel electrophoresis.

Exonuclease Activity (Radioactivity Release) - A 50 µl reaction in NEBuffer 2 containing 1 µg of a mixture of single and double-stranded [³H] *E. coli* DNA and a minimum of 10 µg of Histone H3.2 Human, Recombinant incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.

Molecular Weight Determination (Mass Spectrometry) - The molecular weight of Histone H3.2 Human, Recombinant is between 15,255.64 and 15,257.80 as determined by mass spectrometry analysis.

Protease Activity (Histones) - A 12 µl reaction containing 7 µl of a standard mixture of proteins and a minimum of 5 µg 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.

Protein Purity Assay (SDS-PAGE) - Histone H3.2 Human, Recombinant is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.

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Date 19 Jan 2021

Derek Robinson
Director, Quality Control

