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## New England Biolabs Product Specification

Product Name:	Histone H2B Human, Recombinant
Catalog #:	M2505S
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 EDTA, (pH 7.0 @ 25°C)
Specification Version:	<i>PS-M2505S v2.0</i>
Effective Date:	19 Jan 2021

Assay Name/Specification (minimum release criteria)

Endonuclease Activity (Nicking) - A 50  $\mu$ l reaction in NEBuffer 2 containing 1  $\mu$ g of supercoiled PhiX174 RF I DNA and a minimum of 10  $\mu$ g of Histone H2B 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  $\mu$ l reaction in NEBuffer 2 containing 1  $\mu$ g of a mixture of single and doublestranded [<sup>3</sup>H] *E. coli* DNA and a minimum of 10  $\mu$ g of Histone H2B 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 H2B Human, Recombinant is between 13,787.80 and 13,789.97 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 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.

**Protein Purity Assay (SDS-PAGE)** - Histone H2B Human, Recombinant is  $\geq$  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



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