240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: Histone H2B Human, Recombinant

Catalog #: M2505SConcentration: 1 mg/mlUnit Definition: N/ALot #: 0041708Assay Date: 08/2017Expiration Date: 08/2019Storage Temp: $-20^{\circ}C$

Storage Conditions: 300 mM NaCl, 20 mM NaPO₄, 1 mM EDTA, (pH 7.0 @ 25°C)

Specification Version: PS-M2505S v1.0
Effective Date: 05 Oct 2017

Assay Name/Specification (minimum release criteria)	Lot #0041708
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 μ l reaction in NEBuffer 2 containing 1 μ g of a mixture of single and double-stranded [3 H] <i>E. coli</i> DNA and a minimum of 10 μ g 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 13,788.46 and 13,790.54 as determined by mass spectrometry analysis.	Pass
Protease Activity (Histones) - A $12~\mu$ l reaction containing $7~\mu$ l of a standard mixture of proteins and a minimum of $5~\mu$ g 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 using Coomassie Blue detection.	Pass

Authorized by Derek Robinson 05 Oct 2017

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Quality





Inspected by Fana Mersha 07 Aug 2017

Hana Mersha