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 H1⁰ Human, Recombinant

 Catalog #:
 M2501S

 Concentration:
 1 mg/ml

 Unit Definition:
 N/A

 Lot #:
 0061708

 Assay Date:
 08/2017

 Expiration Date:
 08/2019

 Storage Temp:
 -20°C

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

Specification Version: PS-M2501S v1.0
Effective Date: 22 Sep 2017

Assay Name/Specification (minimum release criteria)	Lot #0061708
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 H1 ⁰ 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 H1 0 Human, Recombinant incubated for 4 hours at 37 $^{\circ}$ C releases <0.1% of the total radioactivity.	Pass
Molecular Weight Determination (Mass Spectrometry) - The molecular weight of Histone H1 ⁰ Human, Recombinant is between 20,730.49 and 20,732.57 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 H1 ⁰ 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 $H1^0$ Human, Recombinant is $\geq 95\%$ pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass

Authorized by Derek Robinson 22 Sep 2017

nqa.
ISO 9001
Registered
Quality





Inspected by Fana Mersha 20 Nov 2017

Hana Mersha