

New England Biolabs Certificate of Analysis

Product Name: Histone H4 Human Recombinant
Catalog Number: M2504S
Concentration: 1 mg/ml
Unit Definition: N/A
Packaging Lot Number: 10188086
Expiration Date: 04/2025
Storage Temperature: -20°C
Storage Conditions: 300 mM NaCl, 20 mM NaPO₄, 1 mM EDTA, (pH 7.0 @ 25°C)
Specification Version: PS-M2504S v2.0

Histone H4 Human Recombinant Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M2504SVIAL	Histone H4 Human, Recombinant	10178082	Pass

Assay Name/Specification	Lot # 10188086
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 H4 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] E. coli DNA and a minimum of 10 µg of Histone H4 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 H4 Human, Recombinant is between 11235.01 and 11237.15 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 H4 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 H4 Human, Recombinant is ≥ 95% pure as determined by SDS-PAGE analysis using	Pass


Assay Name/Specification	Lot # 10188086
Coomassie Blue detection.	

This product has been tested and shown to be in compliance with all specifications.

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Fana Mersha
Production Scientist
11 Apr 2023



Michael Tonello
Packaging Quality Control Inspector
27 Apr 2023