

New England Biolabs Certificate of Analysis

Product Name: Histone H3.1/H4 Tetramer Human, Recombinant
Catalog Number: M2509S
Concentration: 10 µM
Unit Definition: N/A
Packaging Lot Number: 10102336
Expiration Date: 03/2022
Storage Temperature: -20°C
Storage Conditions: 2 M NaCl, 20 mM Tris-HCl, 1 mM DTT, 1 mM EDTA, (pH 8.0 @ 25°C)
Specification Version: PS-M2509S v1.0

Histone H3.1/H4 Tetramer Human, Recombinant Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M2509SVIAL	Histone H3.1/H4 Tetramer Human, Recombinant	10102337	Pass


Assay Name/Specification	Lot # 10102336
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 H3.1/H4 Tetramer 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 H3.1/H4 Tetramer Human, Recombinant incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Protease Activity (Histones) A 12 µl reaction containing 7 µl of a standard mixture of proteins and a minimum of 10 µg of Histone H3.1/H4 Tetramer 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 H3.1/H4 Tetramer Human, Recombinant is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass

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

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Fana Mersha
Production Scientist
21 May 2021



Michael Tonello
Packaging Quality Control Inspector
21 May 2021