NEW ENGLAND BioLabs Inc.
be INSPIRED drive DISCOVERY stay GENUINE
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 H3.1 Human Recombinant*
Catalog Number:	*M2503S*
Concentration:	*1 mg/ml*
Unit Definition:	*N/A*
Packaging Lot Number:	*10163378*
Expiration Date:	*09/2024*
Storage Temperature:	*-20°C*
Storage Conditions:	*300 mM NaCl, 20 mM NaPO4, 1 mM DTT, 1 mM EDTA, (pH 7.0 @ 25°C)*
Specification Version:	*PS-M2503S v2.0*

Histone H3.1 Human Recombinant Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
M2503SVIAL	Histone H3.1 Human, Recombinant	10156782	**Pass**

Assay Name/Specification	**Lot # 10163378**
Molecular Weight Determination (Mass Spectrometry) The molecular weight of Histone H3.1 Human, Recombinant is between 15,271.71 and 15,273.89 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 H3.1 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 Human, Recombinant is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	**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 Human, Recombinant incubated for 4 hours at 37ºC releases <0.1% of the total radioactivity.	**Pass**
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 Human, Recombinant incubated for 4 hours at 37ºC	**Pass**

NEW ENGLAND BioLabs Inc.
be INSPIRED drive DISCOVERY stay GENUINE
240 County Road
Ipswich, MA 01938-2723
Tel 978-927-5054
Fax 978-921-1350
www.neb.com
info@neb.com

Assay Name/Specification	Lot # 10163378
results in <10% conversion to RFII as determined by agarose gel electrophoresis.	

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Fana Mersha
Production Scientist
25 Aug 2022

Erin Varney
Packaging Quality Control Inspector
25 Aug 2022