# Product Name:
Histone H3.1 Human, Recombinant

## Catalog #:
M2503S

## Concentration:
1 mg/ml

## Unit Definition:
N/A

## Lot #:
0051708

## Assay Date:
08/2017

## Expiration Date:
08/2019

## Storage Temp:
-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 v1.0

## Effective Date:
22 Sep 2017

### Assay Name/Specification (minimum release criteria) | Lot #0051708
---|---
**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 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 [³H] E. coli DNA and a minimum of 10 µg of Histone H3.1 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 H3.1 Human, Recombinant is between 15,272.31 and 15,274.39 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

Authorized by
Derek Robinson
22 Sep 2017

Inspected by
Fana Mersha
07 Aug 2017