NEW ENGLAND BioLabs® Inc.

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New England Biolabs
Product Specification

Product Name:	*Histone H2A/H2B Dimer Human, Recombinant*
Catalog #:	*M2508S*
Concentration:	*20 µM*
Unit Definition:	*N/A*
Shelf Life:	*12 months*
Storage Temp:	*-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-M2508S v1.0*
Effective Date:	*25 Sep 2017*

Assay Name/Specification (minimum release criteria)
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 H2A/H2B Dimer Human, Recombinant incubated for 4 hours at 37°C results in <10% conversion to RFII as determined by agarose gel electrophoresis.
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 H2A/H2B Dimer Human, Recombinant incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.
Protease Activity (Histones) - A 12 µl reaction containing 7 µl of a standard mixture of proteins and a minimum of 10 µg of Histone H2A/H2B Dimer 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.
Protein Purity Assay (SDS-PAGE) - Histone H2A/H2B Dimer Human, Recombinant is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.

Date 25 Sep 2017

Derek Robinson
Director of Quality Control

ISO 9001 Registered Quality Management
ISO 14001 Registered Environmental Management
ISO 13485 Registered Medical Devices