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New England Biolabs Certificate of Analysis

Product Name: Human DNA (c-5) MTase (Dnmt1)

Catalog Number: M0230S
Concentration: 2,000 U/ml

Unit Definition: One unit is the amount of enzyme required to catalyze the transfer

of 1 pmol of methyl group to poly dl.dC substrate in a total

reaction volume of 25 µl in 30 minutes at 37°C.

Lot Number:10053614Expiration Date:08/2020Storage Temperature:-20°C

Storage Conditions: 50 mM Tris-HCl, 200 mM NaCl, 1 mM DTT, 1 mM EDTA, 50 % Glycerol, (pH

7.5 @ 25°C)

Specification Version: PS-M0230S/L v1.0

Human DNA (c-5) MTase (Dnmt1) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0230SVIAL	Human DNA (cytosine-5) Methyltransferase (Dnmt1)	10053613	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10049759	Pass	
B9001SVIAL	Purified BSA	10014762	Pass	
B0230SVIAL	Dnmt1 Reaction Buffer	10043394	Pass	

Assay Name/Specification	Lot # 10053614
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart® Buffer containing 1 µg of PhiX174-HaeIII DNA and a minimum of 6 units of Human DNA (cytosine-5) Methyltransferase (Dnmt1) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 2 units of Human DNA (cytosine-5) Methyltransferase (Dnmt1) is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 6 units of Human DNA (cytosine-5) Methyltransferase (Dnmt1) incubated	Pass



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

Tony Spear-Alfonso Production Scientist

of the total radioactivity.

12 Sep 2018

Josh Hersey

Packaging Quality Control Inspector

12 Sep 2019

