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New England Biolabs Certificate of Analysis

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

Catalog Number: M0230L 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:10042377Expiration Date:04/2020Storage 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
M0230LVIAL	Human DNA (cytosine-5) Methyltransferase (Dnmt1)	10042378	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10041003	Pass
B9001SVIAL	Purified BSA	0071705	Pass
B0230SVIAL	Dnmt1 Reaction Buffer	10043394	Pass

Assay Name/Specification	Lot # 10042377
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 for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 10 units of Human DNA (cytosine-5) Methyltransferase (Dnmt1) incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
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	Pass



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

Production Scientist

10 Apr 2019

Michael Tonello

Packaging Quality Control Inspector

30 Apr 2019

