

Mouse ⁵hmC & ⁵mC DNA Set

Cat. No. D5019

Storage: -20 °C



ZYMO RESEARCH

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Product Information

Highlights:

- Precisely quantified levels of 5-methylcytosine and 5-hydroxymethylcytosine verified via mass spectrometry (LC/MS)
- Useful control for detection methods of 5-methylcytosine or 5-hydroxymethylcytosine

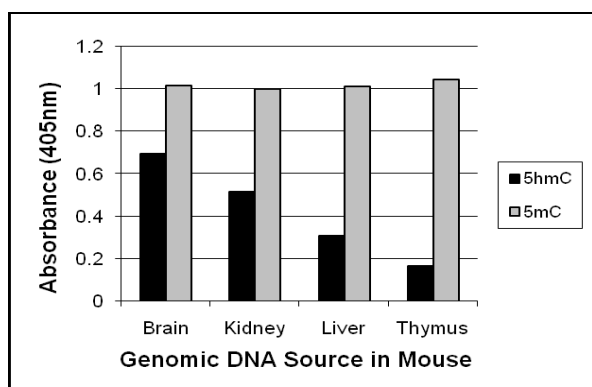
Product Contents:

	Cat. #	Quantity	Storage Temp.
Mouse Brain DNA	D5019-1	5 µg / 20 µl	-20°C
Mouse Kidney DNA	D5019-2	5 µg / 20 µl	-20°C
Mouse Liver DNA	D5019-3	5 µg / 20 µl	-20°C
Mouse Thymus DNA	D5019-4	5 µg / 20 µl	-20°C

Description:

The **Mouse ⁵hmC & ⁵mC DNA Set** is a set of organ specific mouse genomic DNAs isolated from a pool of 8-10 week old Swiss Webster mice. This genomic DNA set is an ideal control for detection and/or quantification methods against 5-methylcytosine (⁵mC) and 5-hydroxymethylcytosine (⁵hmC) as both modified cytosines are present at physiologically relevant levels and loci. The levels of 5-methylcytosine and 5-hydroxymethylcytosine within the **Mouse ⁵hmC & ⁵mC DNA Set** have been precisely quantified by mass spectrometry (LC/MS) and been validated to be consistent by ELISA. Percentages of each modified cytosine are listed below.

	Brain	Kidney	Liver	Thymus
⁵ hmC %	0.548	0.225	0.107	0.030
⁵ mC %	8.06	6.62	7.13	7.54



Mouse ⁵hmC & ⁵mC DNA Set ELISA Assay

Anti-5-methylcytosine or anti-5-hydroxymethylcytosine antibodies were confidently able to reproduce trends in levels of 5-methylcytosine and 5-hydroxymethylcytosines quantified by mass spectrometry.

Product Specifications:

Source: Swiss Webster mice, 8-10 weeks old.
Concentration: 250 ng/µl in modified TE buffer (10mM Tris-HCl; 0.1mM EDTA; pH 8.0).
Storage: ≤ -20 °C

Also Available:

Product Name	Size	Catalog number
EZ DNA Methylation™ Kit	50	D5001
	200	D5002
	2 x 96	D5003
	2 x 96	D5004
EZ DNA Methylation-Gold™ Kit	50	D5005
	200	D5006
	2 x 96	D5007
	2 x 96	D5008
EZ DNA Methylation-Direct™ Kit	50	D5020
	200	D5021
	2 x 96	D5022
	2 x 96	D5023
EZ DNA Methylation-Startup™ Kit	1 Kit	D5024
EZ Bisulfite DNA Clean-up Kit™	50	D5025
	200	D5026
	2 x 96	D5027
	2 x 96	D5028
Universal Methylated DNA Standard	1 set	D5010
Universal Methylated Human DNA Standard	1 set	D5011
Universal Methylated Mouse DNA Standard	1 set	D5012
Bisulfite Converted Universal Methylated Human DNA Standard	1 set	D5015
<i>E. coli</i> Non-methylated Genomic DNA	5 µg	D5016
Methylated-DNA IP Kit	10	D5101
ChIP DNA Clean & Concentrator™	50	D5201
	50	D5205
Anti-5-Methylcytosine Monoclonal Antibody (clone 10G4)	50 µg	A3001-50
	200 µg	A3001-200
ZymoTaq™ DNA Polymerase	50	E2001
	200	E2002
ZymoTaq™ PreMix (2X concentrated)	50	E2003
	200	E2004
CpG Methylase (M.SssI)	200 units	E2010
	400 units	E2011

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This product is for research use only and should only be used by trained professionals. Wear protective gloves and eye protection. Follow the safety guidelines and rules enacted by your research institution or facility.

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ZYMO RESEARCH CORP.

Phone: (949) 679-1190 ▪ Toll Free: (888) 882-9682 ▪ Fax: (949) 266-9452 ▪ info@zymoresearch.com ▪ www.zymoresearch.com