

Cynomolgus Monkey Low Methylated Genomic DNA Control



- Product Name:** Cynomolgus Monkey Low Methylated DNA Control
- Catalog Number:** 80-8068-MFGUM5
- Product Contents:** 1 vial Cynomolgus Monkey Low Methylated Genomic DNA (5µg at 100 ng/µL, <5% Methylation)
- Technical Specifications:** 5µg in TE buffer (10mM Tris-HCl, 1mM EDTA, pH 8.0) Store at -20°C, upon arrival, in aliquots, for 2 years. For best results, do not freeze/thaw an individual aliquot more than three times. For longer term storage -70°C is recommended.
- Shipping:** Freeze at -20°C upon arrival.

Intended Use: FOR RESEARCH USE ONLY

Product Highlights

- ▶ Cynomolgus Monkey Low Methylated Genomic DNA is derived from liver tissue and chemically and enzymatically methylated resulting in less than 20% methylation in the most regions of the genome.
- ▶ Ideal for use as control in bisulfite methylation analysis procedures including Pyrosequencing, targeted NGS, and Methylation Sensitive High-Resolution Melting (MS-HRM)
- ▶ Tested on a global methylation assay for consistent performance
- ▶ Requires bisulfite modification prior to use

Example Protocol

- ▶ Bisulfite modification of controls and sample(s) of interest.
 - Zymo Research EZ Methylation kit (Cat.#D5002 or D5004) with 200 - 500 ng of input DNA following manufacturers recommended protocol.

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► PCR amplification Protocol:

► Component	Per 30µl reaction
10X PCR buffer (Contains 15mM MgCl ₂)	3 µL (1x)
25 mM MgCl ₂	1.8 µL (3.0 mM final conc.)
10 mM dNTPs	0.6 µL (200 µM of each)
10 µM Forward primer	0.6 µL (6 pmol)
10 µM Reverse primer	0.6 µL (6 pmol)
HotStart Taq Polymerase (5 U/µl)	0.15 µL (0.75 U)
DNA	1 µL of bisulfite treated DNA
Water	Adjust to 30 µL

○ HotStar Taq Polymerase Qiagen (Cat. #203205) recommended with the following PCR cycling conditions:

- 95°C 15 min; 45 x (95°C 30 s; Ta°C 30 s; 72°C 30 s); 72°C 5 min; 4°C ∞

○ Additional optimization is needed if different PCR system is used in analysis.

► Sequencing Analysis: Pyrosequencing, NGS, or MS-HRM.

Example Quality Control Results

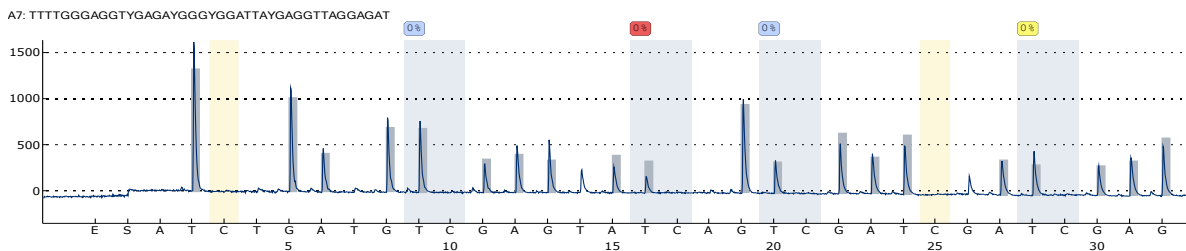


Figure: Low Methylated Control DNA Tested on a Monkey *LINE-1* Methylation Assay via Pyrosequencing Pyrogram showing approximately 0% methylation at all CpG sites