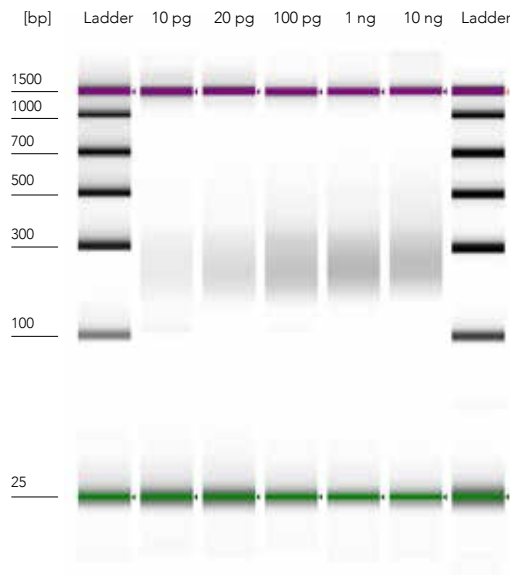


Reliable Bisulfite Conversion for Next-Gen Sequencing

EZ DNA Methylation-Lightning® Kits

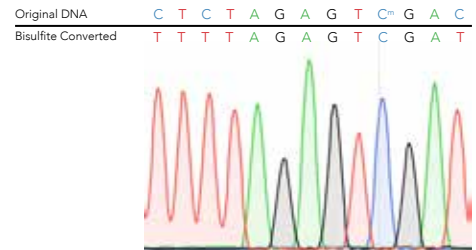
- **Streamlined Process:** Ready-to-use conversion reagent is added directly to DNA. Purified bisulfite converted DNA in < 1.5 hours.
- **High-Quality:** Bisulfite-converted DNA has > 99.5% conversion efficiency with reduced fragmentation.
- **NGS-Ready:** Low DNA input requirement makes it ideal for preparing whole genome or targeted enrichment bisulfite libraries for methylation analysis.

Compatible with Low DNA Inputs



Whole-genome bisulfite sequencing libraries were successfully prepared from DNA inputs as low as 10 pg using the EZ DNA Methylation – Lightning® Kit. Libraries were generated using the Zymo Research Pico Methyl-Seq™ Library Prep Kit, then analyzed using the Agilent 2200 TapeStation® system.

High Conversion Efficiency



DNA with a methylated CpG (at nucleotide position 10) was processed using the EZ DNA Methylation-Lightning® Kit. The recovered DNA was amplified by PCR then sequenced. The methylated cytosine at position #10 remained intact, while the unmethylated cytosines (i.e. positions #1, 3, and 13) were converted into uracil following bisulfite treatment and detected as thymine following PCR.

Specifications

Input 100 pg - 2 µg purified DNA


Conversion Efficiency > 99.5%


Elution Volume Spin Column: ≥ 10 µl
96-well: ≥ 15 µl
Magprep: ≥ 25 µl

DNA Recovery Spin Column: > 80%
96-well: > 70%
Magprep: > 70%

Platform Compatibility Roche NimbleGen SeqCap™ Epi Enrichment System
Illumina TruSeq® DNA Methylation Kit
Illumina TruSeq® Methyl Capture EPIC Library Prep Kit

Product	Cat. No.	Size
EZ DNA Methylation-Lightning®	D5030	50 rxns
EZ-96 DNA Methylation-Lightning® (shallow-well)	D5032	2 x 96 rxns
EZ-96 DNA Methylation-Lightning® (deep-well)	D5033	2 x 96 rxns
EZ-96 EZ DNA Methylation-Lightning® Magprep	D5046	4 x 96 rxns

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