

## High-Performance Bisulfite Conversion of Fragmented DNA

## EZ DNA Methylation-Lightning<sup>™</sup> Kit

- **Downstream Compatibility:** Purified bisulfite DNA ideal for PCR-based workflows (MSP, library preparation, Next-generation sequencing, etc.)
- **Reliable:** Fast and effective bisulfite conversion of fragmented DNA that allows for efficient recovery of small fragments.
- **High Yields:** Consistent, high-quality bisulfite DNA recovery from fragmented or degraded inputs.



## PCR-Ready Bisulfite DNA from FFPE

DNA isolated from a non-small-cell lung cancer (NSCLC) FFPE block was bisulfite converted using the EZ DNA Methylation-Lightning Kit, then PCR amplified with methylation-specific primers for cancer biomarkers SEPT9, RASSF1A, Mir129-2, and control primer COL2A1. L=50bp marker.

Product	Cat No.	Size
EZ-96 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 DNA Methylation-Lightning <sup>®</sup> Magprep	D5046	4 x 96 rxns

## **Recovery of Small Fragments**



Bisulfite converted libraries of small 100, 200, and 300bp DNA fragments were successfully recovered and amplified by PCR. Libraries were analyzed using the Agilent 4200 TapeStation system.



High recovery rates of bisulfite converted fragmented DNA were observed through qPCR analysis targeting the C-LESS-C1 region ( $\Delta$ ct=0.945). Fragment size prior to bisulfite conversion averaged 175bp.



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