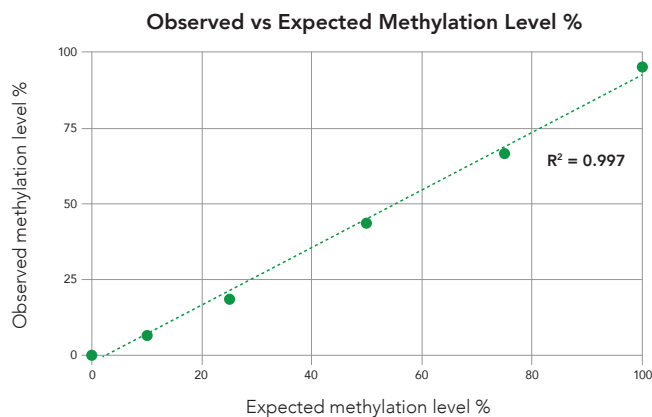


Zymo-Seq Methyl Spike-in Control

Ideal for NGS library prep assessment

- **Accurate quantification:** Reliable calculation of bisulfite conversion efficiency post library prep
- **Precise calibration points:** Six amplicons with 0, 10, 25, 50, 75, and 100% methylation levels allow for a standard curve and robust data normalization
- **Versatile application:** Compatible with various species (except for *E. coli*) and DNA methylation sequencing library preparation methods

Accurate Methylation Detection



The observed methylation levels of a Zymo-Seq Methyl Spike-in Control, which consists of 6 synthetic amplicons with specific DNA methylation levels ranging from 0 to 100%, exhibit a high correlation with the expected methylation level when used with the [Zymo-Seq WGBS Library Kit \(D5465\)](#). Bioinformatic analysis using the reference control with known methylation values ensures higher quality data for each individual sample.

True Bisulfite Conversion Efficiency in Non-CpG Context

| Species | Sample gDNA | Sample DNA with Zymo-Seq Methyl Spike-in Control |
|-----------------------------|-------------|--------------------------------------------------|
| Cotton | 81% | 99% |
| Soybean | 89% | 99% |
| <i>Arabidopsis thaliana</i> | 97% | 99% |
| Cattle | 99% | 99% |
| Human | 99% | 99% |

Bisulfite conversion efficiency in non-CpG context from various species was measured using the sample gDNA with and without Zymo-Seq Methyl Spike-in Control. Utilizing the Zymo-Seq Methyl Spike-In Control resulted in improved accuracy in calculations, especially for non-traditional organisms that have methylation in non-CpG context.

| Product | Cat. No. | Size |
|----------------------------------|----------|----------|
| Zymo-Seq Methyl Spike-in Control | D5500 | 25 preps |



info@zymoresearch.com



www.zymoresearch.com



Toll Free: (888) 882-9682