

## Certificate of Analysis

**Product Name:** Methylated & Low-Methylated DNA Matched Pair - Human Lymphocyte Cell Line

**Cat #:** D6254874-PP

**Lot #:** B903044

**Storage Condition:** -20°C

**Shipping Condition:** Blue Ice

**Shelf Life:** One year from the date of receipt under proper storage condition

### Description

The non-methylated human lymphocyte cell line genomic DNA was isolated by proprietary modified guanidine thiocyanate techniques. The methylated genomic DNA was generated by treating the non-methylated genomic DNA with a methyltransferase which specifically methylates the CpG into C<sup>m</sup>pG within double stranded dinucleotide recognition sequence. The genomic DNA matched pair is provided undigested and can be used as negative and positive methylated control DNA for research.

### Quality Control

1. The methylated genomic DNA is tested with the control primers, a 220 bp size band can visualized on 3% agarose gel. The non-methylated genomic DNA does not produce any band on the gel when tested with the control primers.
2. The presence and absence of methylated cytosine residues in CpG sequences for the methylated and non-methylated genomic DNA, respectively, are confirmed by sequencing analysis after bisulfite conversion.
3. The methylated genomic DNA purity is tested by spectrophotometer, A260/280 is between 1.7 and 2.0, A260/230 is >2.0. (detected in 10 mM Tris-Cl, pH 7.5)

### Components

1. Methylated and Low-Methylated Human Lymphocyte Cell Line Genomic DNA 5 µg each, at concentration 250 ng/ul
2. Control Primer Set
3. User Manual
4. Certificate of Analysis
5. MSDS

**FOR IN VITRO RESEARCH USE ONLY**

**APPROVED BY:** \_\_\_\_\_

