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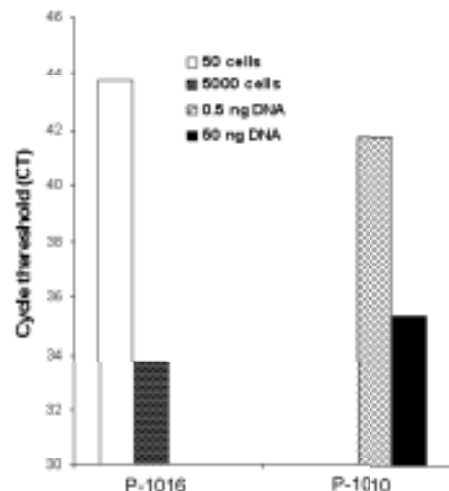
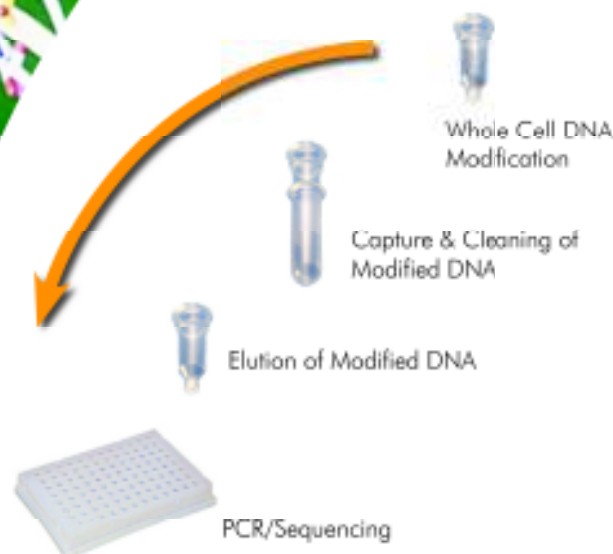
EPIGENTEK

**FINISH IN JUST
3 HOURS!**

Cat No. P-1016

METHYLAMP™

WHOLE CELL BISULFITE MODIFICATION KIT



The different amounts of MCF-7 cells or DNA isolated from MCF-7 cells were modified using the Methylamp™ Whole Cell Bisulfite Modification Kit or Methylamp™ One-Step DNA Modification kit, respectively. 10 µl of modified DNA were eluted and 2 µl of elution were used in real time PCR. A pair of primers and a probe designed to amplify both methylated and unmethylated alleles of β-actin.

The Methylamp™ Whole Cell Bisulfite Modification Kit is an innovative and unique set of essential components which enables the experimenter to perform DNA methylation analysis and modify DNA directly from cells or tissues using Epigentek's uniquely simplified and streamlined bisulfite method. The entire procedure can be completed within only 3 hours. The Methylamp™ Whole Cell Bisulfite Modification Kit is specifically designed for DNA methylation research using minute amounts of starting materials including cells cultured in 96-well/384 well plates, tissue section samples, microdissection samples, tissue biopsy and early embryonic cells/oocytes.

**Rapid & Streamlined 3
Hour Procedure**

**Completely Converts
Unmethylated cytosine
into Uracil: Modified
DNA > 99.5%**

**Proprietary & Unique
by Directly Modifying
Cells & Tissues**

**Lowest Degradation
of DNA in the
Modification Process:
Over 90% DNA Loss
Prevented With DNA
Protection Buffer**

PRINCIPLE AND PROCEDURE

The Methylamp™ Whole Cell Bisulfite Modification Kit contains all reagents required for bisulfite conversion directly on a cell or tissue sample. The kit allows DNA to be isolated from cells or tissues, denatured and bisulfite modified simultaneously in same tube with the specific reaction buffer under the thermodynamic condition. In the modification process, bisulfite reagent reacts specifically with single stranded DNA, thereby deaminating cytosine and creating a uracil residue. The unique DNA protection reagents contained in the modification buffer can prevent the chemical and thermophilic degradation of DNA in the bisulfite treatment. The non-toxic modified DNA capture buffer enables DNA to tightly bind to the column filter, thus DNA cleaning can be carried out on the column to effectively remove residual sodium bisulfite and salts. Modified DNA can then be eluted and stably stored at -20°C for up to 2 months.

Directly Modify DNA in Whole Cells or Tissues

ASK YOUR LOCAL DISTRIBUTOR FOR MORE INFORMATION, OR VISIT WWW.EPIGENTEK.COM