Simplified Procedure for Precise DNA Methylation Detection

The EZ DNA Methylation™ Kit Advantage

- Simple, easy to follow procedure for precise DNA methylation detection.
- Streamlined method for the treatment of DNA with sodium bisulfite and the conversion of unmethylated cytosines into uracil.
- No DNA precipitations required. Instead, bisulfite treated DNA is desulphonated via unique in-column desulphonation technology.

Converted DNA is Ideal for Downstream Analysis Including...

- PCR
- Real-Time PCR
- Microarray
- Sequencing

Input

500 pg – 2 µg DNA per treatment with 200 – 500 ng being optimal

Bisulfite Conversion with a Column

- Single Column
- 96-well Format

The EZ DNA Methylation™ Kit uses a simplified procedure and streamlines the bisulfite method for DNA methylation analysis. The kit is based on the three-step reaction that takes place between Cytosine and Sodium Bisulfite where cytosine is converted into uracil. The EZ DNA Methylation™ Kit’s innovative in column desulphonation reaction eliminates several precipitation steps and provides researchers with consistent reaction conditions. The kit is designed to reduce template degradation, minimize DNA loss during treatment and clean up, and give a complete conversion of unmethylated cytosines. The recovered DNA template is ideal for PCR amplification for downstream analysis by restriction enzymes, sequencing, microarrays, etc.

EZ DNA Methylation™ Kit

Outline of Zymo Research’s Current Bisulfite Conversion Products

Cells

DNA Purification

- EZ DNA Methylation
- EZ DNA Methylation-Gold
- EZ DNA Methylation-Direct

Denature DNA with Dilution Buffer

Add CT Conversion Reagent

Incubate

Incubate

Conversion Reaction

Desulphonation and Clean-up

Ready for PCR
The EZ DNA Methylation-Gold™ and EZ DNA Methylation-Direct™ Kits are patent pending. The Polymerase Chain Reaction (PCR) process is covered by U.S. Pat. Nos. 4,683,195 and 4,683,202 assigned to Hoffmann-La Roche. Patents pending in other countries. No license under these patents to use the PCR process is conveyed expressly or by implication to the purchaser by the purchase of Zymo Research’s EZ DNA Methylation kits. Further information on purchasing licenses to practice the PCR process can be obtained from the director of Licensing at Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404 or at Roche Molecular Systems, Inc., 1145 Atlantic Avenue, Alameda, California 94501. Use of Methylation Specific PCR (MSP) is protected by US Patents 5,786,146 & 6,017,704 & 6,200,756 & 6,265,171 and International Patent WO 97/46705. No license under these patents to use the MSP process is conveyed expressly or by implication to the purchaser by the purchase of this product. Note - ™ Trademarks of Zymo Research Corporation. This product is for research use only and should only be used by trained professionals. Some reagents included with this kit are irritants. Wear protective gloves and eye protection. Follow the safety guidelines and rules enacted by your research institution or facility.

**NOUS CONTACTER**