

Encode P-35S, T-Nos and P-Fmv ID Kit

Item code: EIL-GM-P2T1

Technology: PCR / Real Time PCR/ PCR

Manufacturer: ENCODE

Size: EIL-GM-P2T1-10 Rxns

EIL-GM-P2T1-25 Rxns

EIL-GM-P2T1-50 Rxns

EIL-GM-P2T1-100 Rxns

BACKGROUND: Genetic modification is a special set of gene technology that alters the genetic machinery of such living organisms as animals, plants or microorganisms. Combining genes from different organisms is known as recombinant DNA technology and the resulting organism is said to be 'Genetically modified (GM)'. There are about 150 genetically modified plants have received approval for use as food or feed. Now it become very important to detect the genetically modified organisms (GMOs) in food and feed products. Considering their large diversity (different Genetically modified elements in various species), the application of a generic screening for the presence of GM material is most often the first step in GMO analysis. The promoter 35S obtained from *cauliflower mosaic virus* (CaMV) and the terminator NOS from *Agrobacterium tumefaciens* are the most frequent elements present in transgenic material in food, these regulatory elements do not cover such important transgenic events as MON89788 soy, H7-1 sugar beet or GT73 rape. Therefore, it is very important to detect a promotor from Figwort Mosaic Virus (P-FMV). Today, there are approved methods for PCR based detection of these elements, unique DNA sequences, in particular using real time PCR and specific fluorescent probes.

PRODUCT DESCRIPTION: REAL TIME DETECTION KIT P-35S, T-Nos and P-Fmv uses real-time PCR technology for the detection of *genetically modified elements P-35S, T-Nos and P-Fmv* in a simple, efficient, reliable, and rapid procedure. This method is based on real time PCR reactions to amplify a unique and desirable genomic sequence in the target microorganism. This carefully designed primers and probe ensure highest sensitivity, accuracy and specificity.

