

# GMO<sup>35S</sup> SCREENING KIT

Real Time PCR GMO Detection Kit *Real Time*

## Real time PCR GMO 35S Screening Kit

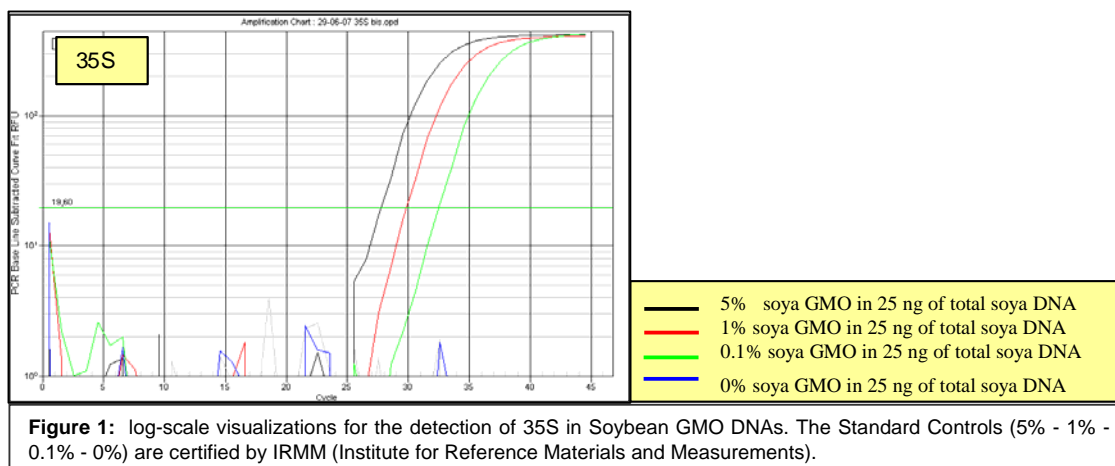
Product code: IC-02-2011 (50 test) / IC-02-2013 (100 test)

### Brief description

**GMO 35S Screening Kit Real-Time** is based on the detection and amplification of 35S promoter (CaMV 35S Promoter obtained from cauliflower mosaic virus) in DNA obtained from fresh and processed samples for human and animal use. The amplified DNA segments are detected by hybridisation with a probe labelled with fluorescent dyes. The increase in fluorescence is continuously measured in a PCR real-time detection instrument (see figure 1).

According to Regulation (EC) N. 1829/2003 on genetically modified food and feed, the labelling shall apply to foods containing material which contains, consist of or if produced from GMOs in a proportion higher than 0.9 % (per cent) of the food ingredients.

**GMO 35S Screening Kit Real-Time** allows to identify in the DNA of sample to be tested the presence of transgenic products or adventitious contamination throughout the food chain.



### Technical features

<b>Number of test</b>	50/100 reactions
<b>Kit content</b>	Mix Test 35S – DNA positive control – sterile H <sub>2</sub> O DNase free
<b>Specificity</b>	the amplification checks for 35S Promoter have been verified on OGM varieties containing the target sequence.
<b>Sensitivity</b>	the LOD is equal to 5 copies of target DNA
<b>Detection limit</b>	up to 0.01% of RoundUp Ready® soy DNA extracted from samples derived from the mixing of IRMM standards.
<b>Detection</b>	probe labelled with fluorescent dyes (Taqman®) - FAM
<b>Results interpretation</b>	available an excel datasheet comprising more than 81 GMO events verified for 5 different targets: 35S, NOS, bar, ctp2-CP4epsps and P35S-pat, to facilitate the data interpretations and to reduce the number of GMO events to be detected after an initial screening.