

# GMO NOS SCREENING KIT

Real Time PCR GMO Detection Kit *Real Time*

## Real time PCR GMO NOS Screening Kit

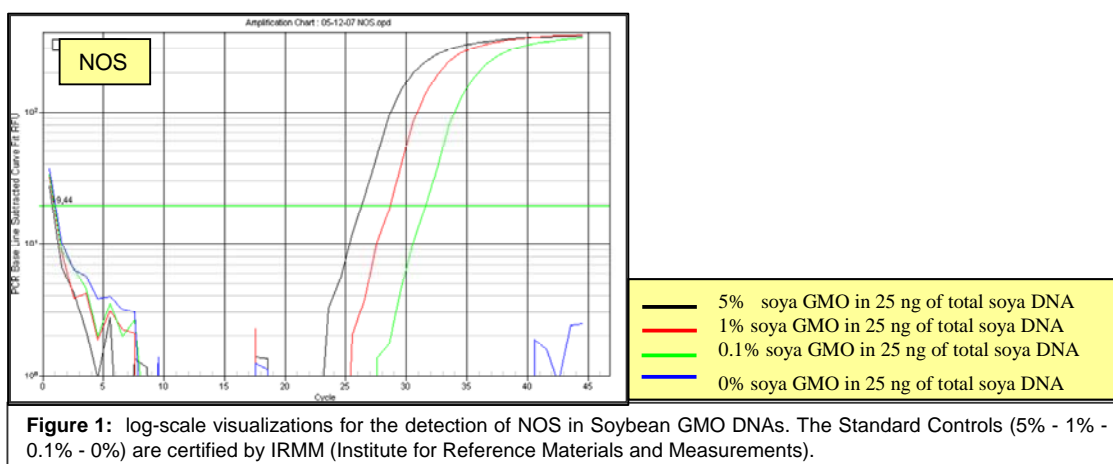
Product code: IC-02-2014 (50 test) / IC-02-2016 (100 test)

### Brief description

**GMO NOS Screening Kit Real-Time** is based on the detection and amplification of NOS terminator (NOS 3' terminator, obtained from *Agrobacterium tumefaciens* nopaline synthetase gene) 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 NOS 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 NOS – DNA positive control – sterile H <sub>2</sub> O DNase free
<b>Specificity</b>	the amplification checks for <i>NOS Terminator</i> 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, <i>bar</i> , <i>ctp2-CP4epsps</i> and <i>P35S-pat</i> , to facilitate the data interpretations and to reduce the number of GMO events to be detected after an initial screening.