

SOYAKIT Real Time PCR

Real Time PCR Soy DNA Detection Kit

Test system for the qualitative detection of soy DNA in food products by PCR Real time

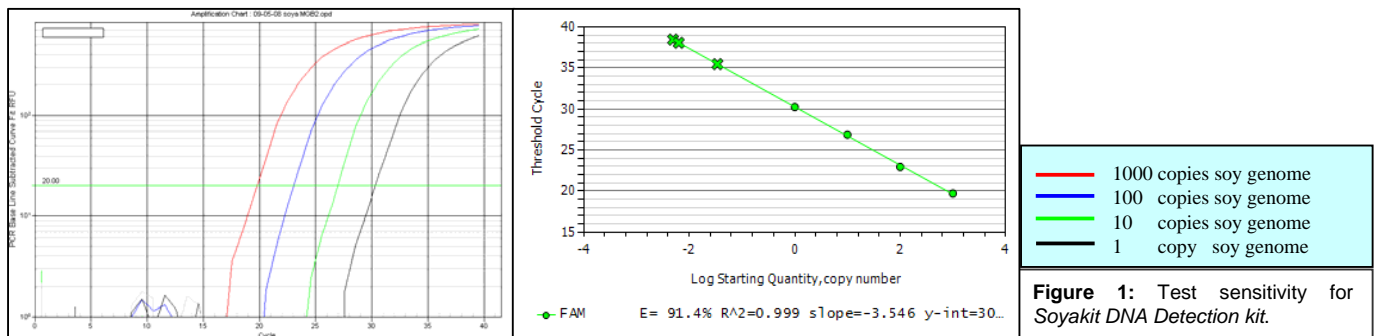
Product code: IC-02-1021 (50 tests) / IC-02-1023 (25 tests)

Brief description

SoyaKit Real Time PCR provides reagents for the qualitative detection of soy DNA in several food products, fresh and processed. The PCR Real Time kit amplifies a DNA fragment that is present solely in soy. The amplified DNA segment is detected by hybridisation with a probe labelled with fluorescent dyes. The increase in fluorescence is continuously measured in a PCR real-time detection instrument.

Soy is considered allergenic food and it is explicitly mentioned in the European Food Labelling Directive.

SoyaKit Real Time PCR is an useful tool to monitor the food allergens to ensure compliance with food labelling (2003/89/EC Directive) and to improve consumer protection.



Technical features

Number of test

25/50 target DNA specific reactions

Kit components

Mix Test Soya (with duplex inhibition control) – DNA positive control – sterile H₂O DNase free

Specificity

the kit has been tested with DNA extracted from both raw material and processed food. The specificity of the system has been validated with several other species normally used in food production (see the Panel below). No cross-reactivity effects have been revealed.

Limit of Detection

1 copy of soy haploid genome, equal to roughly 1.13 pg of *Glycine max* DNA (see Fig.1).

Detection

probe labelled with fluorescent dyes Taqman® - FAM and JOE

Specificity control group tested **negative** for cross-reactivity:

Cashew nut (*Anacardium occidentale*)
 Peanut (*Arachis hypogea*)
 Oat (*Avena sativa*)
 Bovine (*Bos taurus*)
 Chick-pea (*Cicer arietinum*)
 Mussel (*Mytilus chilensis*)
 Herb (*Medicago sativa*)
 Bean (*Phaseolus vulgaris*)
 Spelt (*Triticum turgidum dicoccum*)
 Broad bean (*Vicia faba*)
 Black Tiger prawn (*Penaeus monodon*)
 Wheat (*Triticum aestivum aestivum*)

Wheat (*Triticum turgidum durum*)
 Buckwheat (*Fagopyrum esculentum*)
 Lentils (*Lens esculenta*)
 Yeast (*Saccharomyces cerevisiae*)
 Lupin (*Lupinus albus*)
 Corn (*Zea mays*)
 Almond (*Prunus dulcis*)
 Kamut (*Triticum turgidum*)
 Cod (*Merluccius capensis*)
 Walnut (*Juglans regia*)
 Brazilian nut (*Bertholletia excelsa*)
 Hazelnut (*Corylus avellana*)

Barley (*Hordeum vulgare*)
 Pistachio nut (*Pistacia vera*)
 Green pea (*Pisum sativum*)
 Chicken (*Gallus gallus*)
 Rice (*Oryza sativa*)
 Celery (*Apium graveolens*)
 Mustard (*Sinapis alba*)
 Sesame (*Sesamum indicum*)
 Rye (*Secale x cereale*)
 Sorgho (*Sorghum bicolor*)
 Clover (*Trifolium pratense*)
 Man (*Homo sapiens*)