

PINENUTKIT Real Time PCR

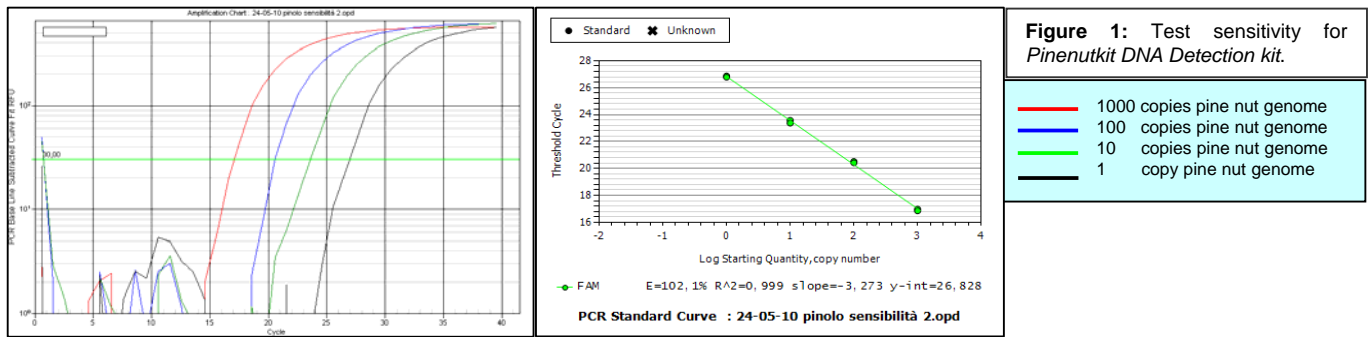
Real Time PCR Pinenut DNA Detection Kit

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

Product code: IC-02-1019 (50 tests) / IC-02-1018 (25 tests)

Brief description

PinenutKit Real Time PCR provides reagents for the qualitative detection of pine nut DNA in several food products, fresh and processed. The PCR Real Time kit amplifies a DNA fragment that is present solely in pine nut. 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.



Technical features

Number of tests	25/50 target DNA specific reactions.
Kit components	Mix <i>Test Pinenut</i> (with duplex inhibition control) – DNA positive control – sterile H ₂ O DNase free.
Specificity	the kit has been tested with DNA extracted from from raw material (<i>Pinus pinea</i>) and processed food (biscuits, different sauces containing pine nut). 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	up to 1 copy of 30.4 pg of <i>Pinus pinea</i> DNA (see Fig.1).
Detection	Probe labelled with fluorescent dyes Taqman® - FAM and JOE

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

Cashew (<i>Anacardium occidentale</i>)	Almond (<i>Prunus dulcis</i>)	Pistachio (<i>Pistacia vera</i>)
Peanut (<i>Arachis hypogea</i>)	Cod (<i>Merluccius capensis</i>)	Chicken (<i>Gallus gallus</i>)
Bovine (<i>Bos taurus</i>)	Hazelnut (<i>Corylus avellana</i>)	Celery (<i>Apium graveolens</i>)
Mussel (<i>Mytilus chilensis</i>)	Walnut (<i>Juglans regia</i>)	Rye (<i>Secale cereale</i>)
Shrimp (<i>Peneaus monodon</i>)	Brazilian nut (<i>Bertholletia excelsa</i>)	Mustard (<i>Brassica alba</i>)
Wheat (<i>Triticum aestivum</i>)	Macadamia nut (<i>Macadamia spp.</i>)	Sesame (<i>Sesamum indicum</i>)
Lupin (<i>Lupinus albus</i>)	Barley (<i>Hordeum vulgare</i>)	Soya (<i>Glycine max</i>)
		Man (<i>Homo sapiens sapiens</i>)