

PISTACKIT Real Time PCR

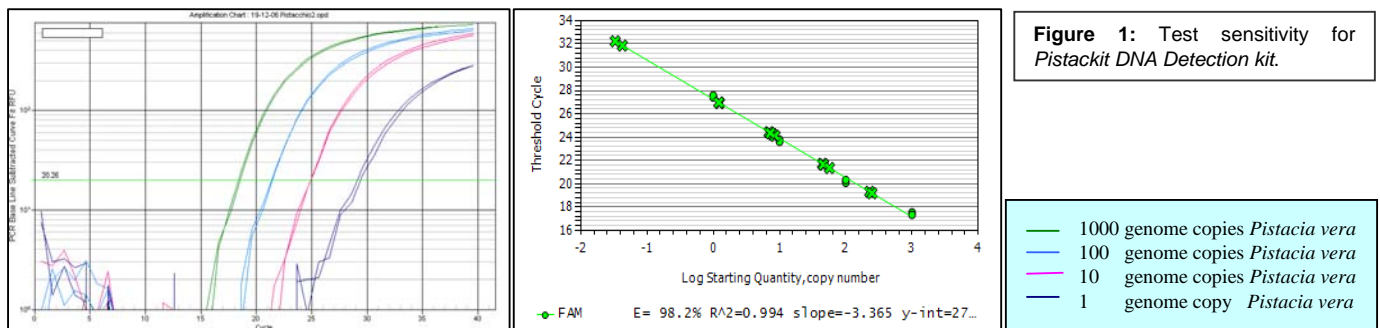
Real Time PCR Pistac DNA Detection Kit

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

Product code: IC-02-1091 (50 tests) / IC-02-1093 (25 tests)

Brief description

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

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|---------------------------|--|
| Number of tests | 25/50 target DNA specific reactions. |
| Kit components | Mix <i>Test Pistac</i> (with duplex inhibition control)– DNA positive control – sterile H ₂ O DNase free. |
| Specificity | the kit has been tested with DNA extracted both from raw material (<i>Pistacia vera</i>) and processed food (biscuits containing 5-1-0.2-0.1-0.01% pistachio, pistachio breadstick). The specificity of the system has been validated with several other species normally used in food production (see Panel below). No cross-reactivity effects have been revealed. |
| Limit of Detection | up to 0.45 pg of <i>Pistacia vera</i> DNA (see Fig.1). |
| Detection | Probe labelled with fluorescent dyes Taqman® - FAM and JOE |

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

| | | |
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| Almond (<i>Prunus dulcis</i>) | Cod (<i>Merluccius capensis</i>) | Pecan nut (<i>Carya illinoensis</i>) |
| Amaranth (<i>Amarantus cruentis</i>) | Green Pea (<i>Pisum sativum</i>) | Pine nut (<i>Pinus pinea</i>) |
| Barley (<i>Hordeum vulgare</i>) | Hazelnut (<i>Corylus avellana</i>) | Plum (<i>Prunus domestica</i>) |
| Bean (<i>Phaseolus vulgaris</i>) | Lupin (<i>Lupinus albus</i>) | Potato (<i>Solanum tuberosum</i>) |
| Brazil nut (<i>Bertholletia excelsa</i>) | Macadamia nut (<i>Macadamia spp</i>) | Rice (<i>Oryza sativa</i>) |
| Bovine (<i>Bos taurus</i>) | Mango (<i>Mangifera indica</i>) | Rye (<i>Secale cereale</i>) |
| Cashew nut (<i>Anacardium occidentale</i>) | Men (<i>Homo sapiens sapiens</i>) | Sesame (<i>Sesamum indicum</i>) |
| Celery (<i>Apium graveolens</i>) | Mile (<i>Panicum miliaceum</i>) | Shrimp (<i>Penaeus monodon</i>) |
| Chestnut (<i>Castanea sativa</i>) | Mussel (<i>Mytilus chilensis</i>) | Soya (<i>Glycine max</i>) |
| Chicken (<i>Gallus gallus</i>) | Mustard (<i>Brassica alba</i>) | Walnut (<i>Juglans regia</i>) |
| Coconut (<i>Cocos nucifera</i>) | Peanut (<i>Arachis hypogaea</i>) | Wheat (<i>Triticum eastivum</i>) |