

ANISAKIDS PCR REAL TIME KIT

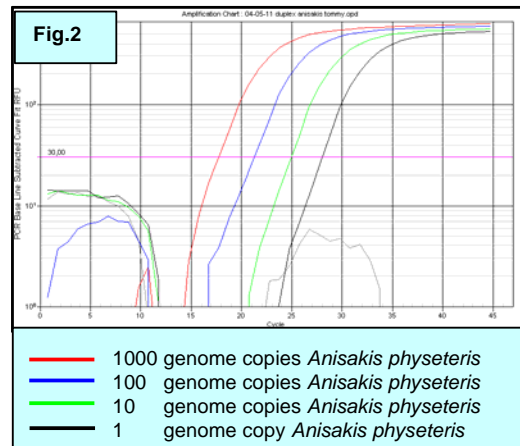
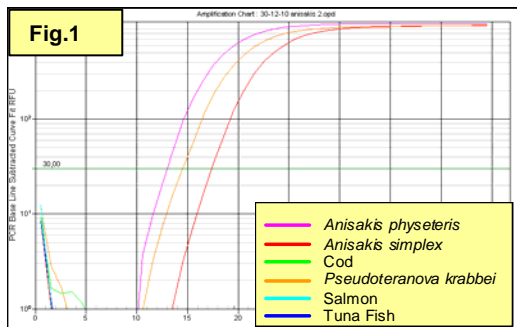
Test kit for the qualitative detection of Anisakids DNA by PCR Real time

Product code: IC-02-1205 (25 tests) / IC-02-1207 (50 tests)

Brief description

Anisakids PCR Real time Kit is intended for the qualitative detection of *Anisakis spp.* and *Pseudoterranova spp.* DNA in fish, fish-derived products, including baby food, by PCR Real Time. Anisakids are nematodes whose larval stages are often present in fish, molluscs and crustaceans. Members of the family Anisakidae belonging to the genera *Anisakis* and *Pseudoterranova* are implicated in human infections caused by the consumption of raw or undercooked fish food by causing debilitating infections (anisakidosis or anisakiasis) or by initiating immune hypersensitivity because dead or inactivated larvae can cause sensitization and IgE-dependent hypersensitivity in humans.

Anisakids PCR Real time Kit allows the detection of *Anisakis spp.* and *Pseudoterranova spp.* DNA in processed food and frozen fish where the visual inspection (EC Directive N. 853/2004) is no more possible (see Figure 1).



Technical features

Number of test	25/50 target DNA specific reactions.
Kit components	Mix <i>Test Anisakids</i> - DNA positive control – sterile H ₂ O DNase free.
Specificity	the kit allows the detection of <i>Anisakis spp.</i> and <i>Pseudoterranova spp.</i> DNA in fish and fish derived products and processed food. The specificity of the system has been validated with several other species normally used in food production (see the Panel 1, 2 and 3 below). No cross-reactivity effects have been revealed.
Sensitivity	up to 0.001% of <i>Anisakis spp.</i> and <i>Pseudoterranova spp.</i> in fish DNA.
Limit of Detection	1 copy of <i>Anisakis physeteris</i> haploid genome(Fig.2).
Detection	probe labelled with fluorescent dyes Taqman ® MGB – FAM and YAK

Table 1 – Anisakids species tested to verify the kit functionality:

Pseudoterranova ceticola;
Pseudoterranova krabbei;
Anisakis pegreffii;
Anisakis typica;
Anisakis physeteris;
Anisakis simplex ss.

Table 2 – Fish and fish-derived products tested to verify the kit functionality:

Fresh seafood;
Frozen seafood;
Canned seafood;
Fish babyfood.

Table 3 – Specificity control group tested for cross-reactivity:

Bovine (*Bos taurus*);
Carp (*Cyprinus carpio*);
Contracaecum (*Contracaecum rudolphii*);
Cod (*Merluccius capensis*);
Salmon (*Salmo salar*);
Soya (*Glycine max*);
Tuna fish (*Thunnus albacares*);
Man (*Homo sapiens*).