

### Supplementary file 1: Allergy study

Allergy study included skin prick-tests (SPT) with commercial extracts (ALK-Abelló S.A., Madrid, Spain), prick-by-prick tests (PP) with foods, and serum specific-IgE determinations using ImmunoCAP system (ThermoFisher Scientific Inc, Uppsala, Sweden):

- SPT with foods (milk, egg, walnut, chestnut, peanut, soybean, mustard, sesame, peach, banana, kiwi, avocado) and latex were all negative.
- SPT with fishes (cod, hake, sole, rooster, sardine, anchovy, sea bream, tuna, red mullet, monkfish, trout, anisakis), and shellfish (prawn, lobster, spider crab, clam, oyster, snail, squid, tropomyosin) showed negative response.
- PP with raw and cooked squid, tuna, shake, sardine, prawn, and shrimp (head and body) were all negative.
- PP resulted positive to both raw (12x11 mm) and cooked conger body (10x9 mm).
- Specific IgE (kUA/L) showed positive results to eel 0.81, hake 0.74, rooster 0.5, carp parvalbumin (rCyp c 1) 0.7, and cod parvalbumin (rGad c: 1) 0.65; while negative to cod, salmon, sole, sardine, and anchovy.

SDS-PAGE under reducing and non-reducing conditions with raw conger (head, body, bone, eye and skin), cooked conger, anisakis, and with raw eel (body and skin), salmon, tuna, cod, carp, sole, hake, and sardine.