

AlerTox[®] Sticks Fish

Validation Report

Cat No.	KIT3038 (10 tests)
Test Name	AlerTox Sticks Fish
Description	Immunochromatographic rapid test for qualitative determination of fish antigen in foods, kitchen and production facilities
Specificity and Sensitivity	<p>The LOD (limit of detection) of AlerTox Sticks Fish is 5 ppm of dried raw cod (<i>Gadus morhua</i>). In other fish species it may be detected only partially due to variability in the antigen content and level of homology with the cod antigen. Raw fish species that can be detected with the kit are: cod, scamp grouper, sea perch, pike, red grouper, seabass, mangrove snapper, pollock, zander, pangasius, carp, red snapper, turbot, anchovy and hake. The range of detection (ROD) is 5-1,000 ppm. Above this range, the test can present a hook effect.</p> <p>AlerTox Sticks Fish uses a combination of antibodies against tropomyosin, a major protein antigen found in striated muscle of bony fishes. The test also detects a related antigen of cartilaginous fishes (sharks and sturgeons), though with a significantly lower sensitivity.</p>
Storage	Store at 10-30 °C (50-86 °F)

Assay Procedure

Solid, liquid and surface samples: According to manual of use INS3020

Validation Protocol

23 samples were analyzed separately to determine the correlation between AlerTox Sticks Fish and a commercially available ELISA against fish. The following data was obtained:

	Sample	Brand	ELISA	AlerTox Sticks Fish
1	XXL Frikadeller	Zimmermann	negative	negative
2	Beef jerky (dried meat)	Jack Links	negative	negative
3	Picnic Salami	TULIP	negative	negative
4	Beef Salami	Glocken-Beune	negative	negative
5	Chorizo <i>Pamplona</i>	ARGAL	negative	negative
6	Brennecke Bratwurst	Brennecke Harzer	negative	negative
7	Thuringer Mini Bratwurst	ZIMBO	negative	negative
8	Cod fillet (<i>Gadus morhua</i>)	Findus	positive	positive
9	Whole shrimps (<i>Pandalus borealis</i>)	Royal Greenland	positive	positive
10	Cooked blue clamps (<i>Mytilus edulis</i>)	Vilsund Blue	negative	negative
11	Antipasti di Mare	Esca	positive	positive
12	Shrimp Tom Yum noodles	MAMA	negative	negative
13	Salmon pastry	ABBA	positive	positive
14	Chicken soup	Nutrilett	negative	negative
15	Bolognese sauce	Barilla	negative	negative
16	Nachos Cheese tortilla chips	Poco Loco	negative	negative
17	Tortilla Chips Cheese	Santa Maria	negative	negative
18	Tuc Paprika crackers	LU	negative	negative
19	Tofu Vegetarian Sausage	POUTTU	negative	negative
20	Salmon stuffed olives (Brine only)	EUROLIVA	positive	negative
21	Salmon stuffed olives	EUROLIVA	positive	positive
22	Anchovy stuffed olives (Brine only)	EUROLIVA	positive	positive
23	Anchovy stuffed olives	EUROLIVA	positive	positive

According to these results, the correlation between both techniques is 96 % in the samples tested.