

AlerTox® Sticks Soy

Validation Report

Cat No.	KIT3028 (10 tests)
Test Name	AlerTox Sticks Soy
Description	Immunochromatographic rapid test for qualitative determination of soy antigen in foods, kitchen and production facilities
Specificity and Sensitivity	<p>The LOD (limit of detection) of AlerTox Sticks Soy is 10 ppm of soy protein. The range of detection (ROD) is 10-5,000 ppm. Above this range, the test can present a hook effect.</p> <p>AlerTox Sticks Soy uses a combination of monoclonal antibodies against soy trypsin inhibitor. AlerTox Sticks Soy does NOT detect the antigens of related legumes including pea, white bean, chickpea, peanut, lentil and lupine and is weakly reactive to alfalfa bean.</p> <p>The test is not capable of detecting the residues of soybean proteins in soy sauces prepared either by natural enzymatic degradation or by chemical treatment (acid hydrolysis). It shows positive reaction in less hydrolyzed soy drinks.</p>
Storage	Store at 10-30 °C (50-86 °F)

Assay Procedure

Solid, liquid and surface samples: According to manual of use INS3015

Validation Protocol

40 samples were analyzed separately to determine the correlation between AlerTox Sticks Soy and a commercially available ELISA against soy trypsin inhibitor. The following data was obtained:

	Sample	Brand	ELISA	ELISA AlerTox Sticks Soy

1	Rice & Wheat	Semper	negative	negative
2	Full grain meal	Nutricia	negative	negative
3	Nutrilon Soy drink	Nutricia	positive	positive
4	Nutrilon Hypo-allergenic drink	Nutricia	negative	negative
5	BONA Seafood meal	Nestlé	negative	negative
6	Tuna pasta	Nutricia	negative	negative
7	Meatballs XXL Frikadeller	Zimmermann	positive	positive
8	Pork with vegetables	Nutricia	negative	negative
9	Minced meat – Dried meat	Beef jerky, Jack Links	positive	positive
10	Sausage	Brennecke Bratwurst, Brennecke Harzer Wurstwaren	positive	positive
11	Sausage	Thuringer Mini Bratwurst, Zimbo	positive	positive
12	Tofu Vegetarian Sausage	Pouttu	positive	positive
13	Chicken soup	Nutrilett	positive	positive
14	Tomato, ricotta & basil pasta sauce	Jamie Oliver	negative	negative
15	Curry Sauce	Blå Bland	positive	positive
16	Cream Sauce	Knorr	positive	positive
17	Barilla Bolognese sauce	Barilla	positive	negative
18	Alpen Fruit&nut with Chocolate	Alpen	negative	negative
19	Kinder Bueno	Kinder	positive	positive
20	Crispi Peanut & Toffee	Marabou	negative	negative
21	Protein Shape Chocolate Hazelnut	Nutrilett	positive	positive
22	Whey Protein Isolate	Biotech USA Iso Whey Zero	negative	negative

23	Proteins powder	Synerg 6, Full Force Nutrition	negative	negative
24	Müslix Chocolate	Kellogg's	negative	negative
25	VITALIS crunchy plus almond honey	Dr. Oetker	negative	negative
26	Weetabix Minis Choko	Weetabix	negative	negative
27	Country Cookies Hazelnut Chocolate	Hellema	negative	negative
28	Praline Hazelnut Almond	Rice Dream	negative	negative
29	Soy Drink	ALPRO	positive	positive
30	Nachos Cheese tortilla chips	Poco Loco	positive	positive
31	Tortilla Chips Cheese	Santa Maria	negative	negative
32	Tuc Paprika	LU	positive	positive
33	Spices	n/a	negative	positive
34	Chicken nuggets	n/a	negative	negative
35	Pork tenderloin	n/a	negative	negative
36	Onion omelette	n/a	negative	negative
37	Washwater	n/a	negative	negative
38	Prawns	n/a	negative	negative
39	Carrot cake	n/a	negative	negative
40	Fish	n/a	negative	negative

According to these results, the correlation between both techniques is 95% in the samples tested.

Participation in Proficiency Tests

Also, AlerTox Sticks Soy was tested with FAPAS material 27244A (wheat flour). The assigned result for the kit with more datapoints on this round was 25.6 mg/kg soy. AlerTox Sticks Soy yielded a positive result (>10 ppm) for this sample. Sample 2744B (wheat flour) was negative with 100% consensus and AlerTox Sticks Soy yielded a negative (<10 ppm) result.