

AlerTox® Sticks Hazelnut

Validation Report

Cat No.	KIT3035 (10 tests)
Test Name	AlerTox Sticks Hazelnut
Description	Immunochromatographic rapid test for qualitative determination of hazelnut antigen in foods, kitchen and production facilities
Specificity and Sensitivity	<p>The LOD (limit of detection) of AlerTox Sticks Hazelnut is 20 ppm of hazelnut protein. The range of detection (ROD) is 20-10,000 ppm. Above this range, the test can present a hook effect.</p> <p>AlerTox Sticks Hazelnut uses a combination of monoclonal antibodies against a major hazelnut antigen, the legumin-like 11S seed storage protein known as allergen Cor a 9. AlerTox Sticks Hazelnut does NOT detect the antigens of cereals, legumes and other nuts, including walnut, pecan, peanut, almond, cashew nut, macadamia nut, Brazil nut and coconut</p>
Storage	Store at 10-30 °C (50-86 °F)

Assay Procedure

Solid, liquid and surface samples: According to manual of use 3018

Validation Protocol

23 samples were analyzed separately to determine the correlation between AlerTox Sticks Hazelnut and ELISA against hazelnut antigen. The following data was obtained:

	Sample	Brand	AlerTox Sticks Hazelnut	ELISA
1	Nut Bar	El Almendro	positive	positive
2	Roasted almonds	Good Food	negative	negative
3	Roasted hazelnut	Good Food	positive	positive
4	Gold Honey Nut Flakes	Nestlé	negative	positive
5	Wheat flour	Molino Grassi	negative	negative
6	Almond flour	Metro Chef	negative	negative
7	Coconut flour	UFEELGOOD	negative	negative
8	Sunflower oil	Altero	negative	negative
9	Hazelnut oil	La Tourangelle	positive	positive
10	Choko-Bons	Kinder	positive	positive
11	Thin Rye Crispbread	Finn Crisp	negative	negative
12	Toffee and Pecan Biscuits	Walkers	negative	negative
13	Pesto (sauce)	Barilla	negative	negative
14	Bolognese (sauce)	Barilla	negative	negative
15	Peanut Butter	Hamilton Farms	negative	negative
16	Yogurt	n/a	negative	negative
17	Carrot Cake	n/a	positive	positive
18	Biscuit cake	n/a	positive	positive
19	Washwater	n/a	negative	negative
20	Beer	n/a	negative	negative
21	Liqueur	n/a	negative	negative
22	Corn snack	n/a	negative	negative
23	Tomato sauce	n/a	negative	negative

According to these results, the correlation between both techniques is 95.6 % in the samples tested.

Participation in Proficiency Tests

Also, AlerTox Sticks Hazelnut was tested with FAPAS material 27248 (chocolate). The assigned result for the kit with more datapoints in this round was 11.8 mg/kg. AlerTox Sticks Hazelnut correctly assessed the result of this proficiency test (<20 ppm).