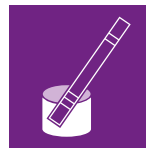


PRODUCT FOCUS



AgraStrip®

Allergens - Lateral Flow Devices

► AgraStrip® Allergen Test Kits available

| Kit | Order number |
|---------------------------------|--------------|
| AgraStrip® Almond Kit | COKAL0710AS |
| AgraStrip® β-Lactoglobulin Kit | COKAL1010AS |
| AgraStrip® Brazil Nut Kit | COKAL1710AS |
| AgraStrip® Casein Kit | COKAL1210AS |
| AgraStrip® Cashew/Pistachio Kit | COKAL1310AS |
| AgraStrip® Crustacea Kit | COKAL2210AS |
| AgraStrip® Egg Kit | COKAL1810AS |
| AgraStrip® Gluten Kit | COKAL0210AS |
| AgraStrip® Gluten G12 Kit | COKAL0200AS |
| AgraStrip® Hazelnut Kit | COKAL0310AS |
| AgraStrip® Lupin Kit | COKAL1510AS |
| AgraStrip® Macadamia Nut Kit | COKAL1610AS |
| AgraStrip® Milk Kit | COKAL2410AS |
| AgraStrip® Mustard Kit | COKAL2110AS |
| AgraStrip® Peanut Kit | COKAL0110AS |
| AgraStrip® Sesame Kit | COKAL1910AS |
| AgraStrip® Soy Kit | COKAL0410AS |
| AgraStrip® Walnut Kit | COKAL0910AS |

The **AgraStrip® Allergen Test Kits** are immunological rapid test in lateral flow format for the detection of allergens in food, rinse waters and environmental swabs. Lateral flow devices are a very fast and easy to use on-site detection method for traces of food allergens. The AgraStrip® tests form a system allowing on-site detection of multiple food allergens.

Competitive Advantages

Fast – 11 minutes time to result

Sensitive – LOD in low ppm*

Stable – 12 months shelf life at room temperature

Cost Effective – 10 single sample tests

User friendly – ready to use components, no additional equipment needed

*see validation data for more details

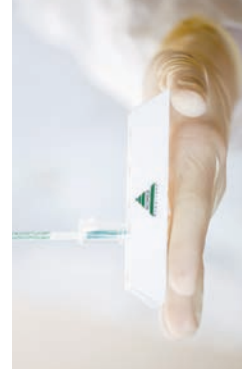
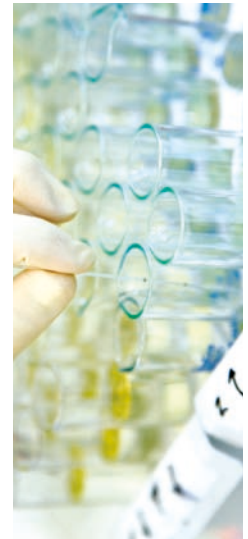


Validation data of AgraStrip® Allergen Test Kits - Overview

| | Almond | β-Lactoglobulin | Brazil Nut | Casein | Cashew Pistachio | Crustacea | Egg | Gluten | Gluten G12 | Hazelnut |
|--|---|---------------------------|---|---|--|-----------------------------------|---|--|---|---|
| Limit of Detection | 2 ppm almond | 0.5 ppm β-Lactoglobulin | 5 ppm brazil nut | 1 ppm casein | 2 ppm cashew 2 ppm pistachio | 10 ppm crustacea (wet) | 2 ppm dried whole egg | 4 ppm gluten | 5 ppm gluten | 5 ppm hazelnut |
| Specificity | no cross-reactivity with samples tested | κ-Casein, β-Lactoglobulin | no cross-reactivity with samples tested | no cross-reactivity with samples tested | no cross-reactivity with samples tested | 100 % squid | no cross-reactivity with samples tested | cross-reactivity with rye and barley | cross-reactivity with rye, spelt, barley and some oat varieties | slight cross-reactivity with pecan nut and walnut |
| LOD in spiked Commodities | 1 ppm protein (5 ppm almond) | - | 2 ppm protein (14.2 ppm brazil nut) | 1 ppm casein | 1 ppm protein (5 ppm cashew) 2 - 5 ppm pistachio protein (9.4 - 23.5 ppm pistachio) | 1 ppm protein (7.1 ppm Crustacea) | 1 ppm protein (2.5 ppm dried whole egg) | detection of 5 ppm gluten with all spiked commodities tested | 5 ppm gluten (10 ppm with chocolate) | 1 ppm protein (8 ppm hazelnut) |
| Rinse water | neutral pH needed | - | neutral pH needed | neutral pH needed | neutral pH needed | - | neutral pH needed | possibility of false positive results with low pH samples (<pH2) | variation in pH (5 - 9) does not affect result | neutral pH needed |
| Swabbing Recovery (plastic and stainless steel) | 0.2 µg protein | - | 0.4 µg protein | 0.4 µg protein | 0.4 µg protein | 0.2 ug protein | 0.2 µg protein | recovery of 4 µg from plastic and stainless steel surfaces | 4 µg protein | 0.2 µg protein |

Validation data of AgraStrip® Allergen Test Kits - Overview

| | Lupin | Macadamia Nut | Milk | Mustard | Peanut | Sesame | Soy | Walnut |
|--|---|--|--------------------------------|---|---|--|--|--|
| Limit of Detection | 10 ppm lupin | 2 ppm macadamian nut | 1 ppm milk protein | 2 ppm mustard | 1 ppm peanut | 5 ppm sesame | 2 ppm soy | 10 ppm walnut |
| Specificity | no cross-reactivity with samples tested | no cross-reactivity with samples tested | Casein, β -Lactoglobulin | cross-reactivity with wheat flour | slight cross-reactivity with green peas, white beans, soy beans | no cross-reactivity with samples tested | cross reactivity with black and giant beans | cross-reactivity with pecan nuts |
| LOD in spiked Commodities | - | 0.5 – 2 ppm protein (5.5 – 21.8 ppm macadamia) | - | 2 – 20 ppm protein (6 – 60 ppm mustard) | 1 ppm protein (4 ppm peanut) | 0.5 – 5 ppm protein (2.8 – 27.5 ppm sesame) | detection of 1 ppm protein (2.7 ppm soy) with all spiked commodities tested | 20 – 40 ppm walnut |
| Rinse water | neutral pH needed | neutral pH needed | - | neutral pH needed | neutral pH needed | neutral pH needed | variation in pH (5 – 9) does not affect result | neutral pH needed |
| Swabbing Recovery (plastic and stainless steel) | - | 0.2 μ g protein | - | 1 μ g protein | 0.2 μ g protein | 0.2 μ g protein (plastic) 0.4 μ g protein (stainless steel) | recovery of 0.09 μ g soy protein (2.4 μ g soy) from plastic and stainless steel surfaces | 20 μ g walnut (plastic) 50 μ g walnut (stainless steel) |



ROMER

Assay Principles

Immunological rapid test in lateral flow format for the detection of allergens in food, rinse waters and swab samples (environmental samples). The extracted sample is transferred to an incubation vial that contains specific ready-to-use antibodies. If the sample contains the allergen, an antigen-antibody complex will form. This is subsequently detected by means of the test strip. Resulting in a visible testline.

Hook-Effect

If more than 1 % of allergen (10 000 ppm) is present in the sample then this can lead to a false negative result! Therefore the test is designed for detection of allergen traces.

Sampling

Consideration must be taken that the food may contain an uneven distribution of allergens (spot contamination). It is important to test a representative portion of food as only a small amount of material is tested with the AgraStrip® Allergen test. So far there are no official regulations on sampling for food allergen testing. One reason for this is the different nature of samples for food allergens as they can vary from solid, dry powders to viscous and liquid form. A different approach is necessary for each type of sample matrix.

Affordability and ease of use of the AgraStrip® Allergen kits allow that more samples can be taken and tested than in the past. This helps to identify these hot spots of contamination, thereby also reducing some of the largest variances in testing which arise from sampling and reduce the potential risk to consumers of hidden food allergens.

Swabbing

The AgraStrip® Allergen Kit contains swabs for environmental sample collection.

Each Testkit includes*:

- Package Insert
- Certificate of Performance
- 10 strip tests in tube
- 1 Dropper Bottle containing 35 ml Extraction Solution
- 10 Extraction Tubes and Caps
- 10 Incubation Vials with ready to use antibodies
- 10 Extraction Tube dropper tips
- 10 Swabs
- 1 stand for incubation vials

*Test kit composition and procedure for AgraStrip® Gluten and for AgraStrip® Gluten G12 varies.

NOTE: Please consult Package Inserts for detailed procedures, as they might vary slightly.

Most products of the AgraStrip® Allergen Kit range were developed in cooperation with ifp (www.produktqualitaet.com)



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