



ALLERGENS

From on-site screening to laboratory analysis, our efficient and dependable tests enable the rapid detection of allergens in food products, rinse water, and environmental samples, helping you uphold the highest standards of consumer safety.



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AgraStrip® Pro

Allergen Lateral Flow Devices

AgraStrip® Pro Allergen LFD kits are immunochromatographic rapid tests designed for the on-site, qualitative detection of allergen traces in foodstuffs, rinse waters, and environmental swabs.

A simple, streamlined procedure

After a 1-minute extraction, the sample is transferred to an incubation vial containing allergen-specific antibodies. Allergen-antibody complexes are then detected on the test strips, where they are visualised as a coloured line.

The test is designed to minimise handling and reduce the risk of contamination. It can be used for swab samples, rinse waters, and foodstuffs — without the need for extra buffers or centrifugation steps.

Looking for objective and consistent results?

AgraStrip® Pro Allergen kits are compatible with the **AgraVision™ Pro system**. Seamlessly collect, document, and manage data with Romer Labs Data Manager. Transfer data to a PC, export to LIMS, or print out a report.

Features and benefits:

- **Highly specific and sensitive results** at low cut-off levels
- **Fast results** – 11 minutes including extraction
- **Suitable for on-site** testing outside the traditional lab space
- **Transport and store at room temperature** – reduce shipping costs associated with temperature-controlled items and minimise downtime (no waiting for kits to warm up)



For more information, please contact your Lasec® Sales Representative

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| STOCK CODE | DESCRIPTION | LIMIT OF DETECTION |
|------------|---|--------------------|
| 10007055 | AGRASTRIP® PRO ALLERGEN - ALMOND - 15 TESTS | 2 PPM |
| 10007056 | AGRASTRIP® PRO ALLERGEN - BETA-LACTOGLOBULIN - 15 TESTS | 0.5 PPM |
| 10007057 | AGRASTRIP® PRO ALLERGEN - BRAZIL NUT - 15 TESTS | 5 PPM |
| 10007058 | AGRASTRIP® PRO ALLERGEN - CASEIN - 15 TESTS | 1 PPM |
| 10007059 | AGRASTRIP® PRO ALLERGEN - CASHEW/PISTACHIO - 15 TESTS | 2 PPM |
| 10007060 | AGRASTRIP® PRO ALLERGEN - COCONUT - 15 TESTS | 10 PPM |
| 10007061 | AGRASTRIP® PRO ALLERGEN - CRUSTACEA - 15 TESTS | 10 PPM |
| 10007062 | AGRASTRIP® PRO ALLERGEN - GLUTEN - 15 TESTS | 4 PPM |
| 10001995 | AGRASTRIP® PRO ALLERGEN - GLUTEN G12 - 10 TESTS | VARIOUS |
| 10007063 | AGRASTRIP® PRO ALLERGEN - HAZELNUT - 15 TESTS | 5 PPM |
| 10007064 | AGRASTRIP® PRO ALLERGEN - LUPIN - 15 TESTS | 10 PPM |
| 10007065 | AGRASTRIP® PRO ALLERGEN - MACADAMIA - 15 TESTS | 2 PPM |
| 10007066 | AGRASTRIP® PRO ALLERGEN - MILK - 15 TESTS | 1 PPM |
| 10007067 | AGRASTRIP® PRO ALLERGEN - MUSTARD - 15 TESTS | 2 PPM |
| 10007068 | AGRASTRIP® PRO ALLERGEN - PEANUT - 15 TESTS | 1 PPM |
| 10007069 | AGRASTRIP® PRO ALLERGEN - SESAME - 15 TESTS | 5 PPM |
| 10007070 | AGRASTRIP® PRO ALLERGEN - SOY - 15 TESTS | 2 PPM |
| 10007071 | AGRASTRIP® PRO ALLERGEN - WALNUT - 15 TESTS | 5 PPM |
| 10007072 | AGRASTRIP® PRO ALLERGEN - WHOLE EGG - 15 TESTS | 2 PPM |

INSTRUMENTS

| | |
|----------|--|
| 10006324 | AGRAVISION™ PRO READER (FOR AGRASTRIP® LATERAL FLOW TESTS) |
| 10006483 | AGRAVISION™ PRO PRINTER (FOR AGRAVISION™ PRO READER) |
| 10006484 | AGRAVISION™ PRO SCANNER (FOR AGRAVISION™ PRO READER) |

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AgraQuant® Plus

Allergen ELISA Test Kits

AgraQuant® Plus Allergen Test Kits are designed to simplify and optimise the extraction process for ELISA-based analysis of allergens in food, environmental samples, and rinse waters.

How it works

AgraQuant® Plus Allergen Test Kits are based on the ELISA technique, combined with **a fast extraction procedure** using **unique capsule technology**. After extraction, any allergen in the sample is captured by antibodies pre-coated onto the wells. An enzymatic reaction then causes a colour to develop, corresponding to the concentration of allergen present in the sample.

These test kits have been validated for the analysis of allergens in raw and processed food, ingredients, environmental samples, and rinse waters.

Features and benefits:

- Unique extraction capsules optimise your workflow by reducing human error and eliminating the need for costly training
- Fast: 1-minute extraction time and 30-minute assay time
- Ready-to-use reagents
- Analyse the same sample extract for several allergens
- 12 month shelf life from date of manufacture
- Transportable at room temperature; store at 2°C – 8°C

Kit Contents:

- Set of 5 standards
- 48 antibody-coated microwells
- 48 transfer microwells
- 2 bags of extraction capsules
- 1 bottle of wash buffer
- 1 bottle of conjugate
- 1 bottle of substrate
- 1 bottle of stop solution



Materials required but not supplied

- Blender
- Analytical balance
- Recommended 8-channel pipette
- Wash bottle, multichannel pipette or automatic washer
- Microwells / plate reader

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| STOCK CODE | DESCRIPTION | QUANTIFICATION RANGE | LIMIT OF DETECTION |
|------------|---------------------------------|----------------------|--------------------|
| 10002023 | ALLERGEN ELISA PLUS - ALMOND | 1 - 25 PPM | 0.5 PPM |
| 10002042 | ALLERGEN ELISA PLUS - CASEIN | 1 - 25 PPM | 0.2 PPM |
| 10002096 | ALLERGEN ELISA PLUS - CASHEW | 1 - 25 PPM | 1 PPM |
| 10002060 | ALLERGEN ELISA PLUS - EGG | 1 - 25 PPM | 0.5 PPM |
| 10002008 | ALLERGEN ELISA PLUS - HAZELNUT | 1 - 25 PPM | 1 PPM |
| 10002053 | ALLERGEN ELISA PLUS - MACADAMIA | 1 - 25 PPM | 1 PPM |
| 10002072 | ALLERGEN ELISA PLUS - MUSTARD | 1 - 25 PPM | 0.5 PPM |
| 10001992 | ALLERGEN ELISA PLUS - PEANUT | 1 - 25 PPM | 0.5 PPM |
| 10002088 | ALLERGEN ELISA PLUS - PISTACHIO | 1 - 25 PPM | 1 PPM |
| 10002066 | ALLERGEN ELISA PLUS - SESAME | 1 - 25 PPM | 1 PPM |

AgraQuant®

Allergen ELISA Test Kits

AgraQuant® Allergen ELISA Test Kits are designed for the sensitive and quantitative analysis of specific food allergen residues in a variety of food products.

How it works

AgraQuant® Allergen Test Kits are based on ELISA technology. After extraction, any allergen in the sample is captured by antibodies pre-coated onto the microplate wells. An enzymatic reaction causes a colour to develop, corresponding to the concentration of allergen present in the sample.

Features and benefits:

- High sensitivity with low detection limits
- Ready-to-use reagents
- Analyse the same sample extract for several allergens
- 12 month shelf life from date of manufacture
- Transportable at room temperature; store at 2°C – 8°C

Kit Contents:

- Set of 5 standards
- 48 antibody-coated microwells
- 1 bottle of extraction buffer
- 1 bottle of conjugate
- 1 bottle of substrate
- 1 bottle of stop solution



Materials required but not supplied

- Blender
- Analytical balance
- Recommended 8-channel pipette
- Wash bottle, multichannel pipette or automatic washer
- Microwells / plate reader

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| STOCK | DESCRIPTION | QUANTIFICATION RANGE | LIMIT OF DETECTION |
|----------|-------------------------------------|----------------------|--------------------|
| 10002021 | ALLERGEN ELISA - ALMOND | 0.4 – 10 PPM | 0.2 PPM |
| 10002034 | ALLERGEN ELISA - BETA-LACTOGLOBULIN | 10 – 400 PPB | 1.5 PPB |
| 10002037 | ALLERGEN ELISA - CASEIN | 0.2 – 6 PPM | 0.04 PPM |
| 10002094 | ALLERGEN ELISA - CASHEW | 2 – 60 PPM | 0.2 PPM |
| 10002076 | ALLERGEN ELISA - CRUSTACEA | 20 – 400 PPB | 0.9 PPB |
| 10002026 | ALLERGEN ELISA - EGG WHITE | 0.4 – 10 PPM | 0.05 PPM |
| 10002083 | ALLERGEN ELISA - FISH | 4 – 100 PPM | 1.4 PPM |
| 10001994 | ALLERGEN ELISA - GLUTEN G12® | 4 – 200 PPM | 2 PPM |
| 10002002 | ALLERGEN ELISA - GLUTEN | 4 – 120 PPM | 0.6 PPM |
| 10002006 | ALLERGEN ELISA - HAZELNUT | 1 – 40 PPM | 0.3 PPM |
| 10002018 | ALLERGEN ELISA - HISTAMINE | 0.5 – 50 PPB | 0.15 PPB |
| 10002017 | ALLERGEN ELISA - HISTAMINE RAPID | 3 – 300 PPM | 1 PPM |
| 10002049 | ALLERGEN ELISA - LUPIN | 2 – 30 PPM | 0.2 PPM |
| 10002090 | ALLERGEN ELISA - LYSOZYME | 25 – 250 PPB | 2 PPB |
| 10002080 | ALLERGEN ELISA - MILK | 0.4 – 10 PPM | 0.05 PPM |
| 10006023 | ALLERGEN ELISA - MOLLUSK | 10 – 400 PPB | 1.7 PPB |
| 10002070 | ALLERGEN ELISA - MUSTARD | 2 – 60 PPM | 1 PPM |
| 10002092 | ALLERGEN ELISA - OVALBUMIN | 25 – 500 PPB | 4 PPB |
| 10001990 | ALLERGEN ELISA - PEANUT | 1 – 40 PPM | 0.1 PPM |
| 10002086 | ALLERGEN ELISA - PISTACHIO | 1 – 40 PPM | 0.13 PPM |
| 10002064 | ALLERGEN ELISA - SESAME | 2 – 30 PPM | 0.2 PPM |
| 10002015 | ALLERGEN ELISA - SOY | 40 – 1000 PPB | 16 PPB |
| 10002030 | ALLERGEN ELISA - WALNUT | 2 – 60 PPM | 0.35 PPM |

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Gluten Detection

What is the Romer Labs® G12® Monoclonal Antibody?

- Raised against the toxic peptide fragment known to trigger a coeliac immune response
- Specifically recognises the most harmful gluten proteins affecting sensitive individuals
- Detects potentially immuno-toxic oat varieties



In 2008, the Codex Alimentarius Committee introduced the Codex Standard for Foods for Special Dietary Use for Persons Intolerant to Gluten (CODEX STAN 118–1979), which supports the use of antibody-based methods that react with cereal protein fractions harmful to gluten-intolerant individuals.

Following these requirements, the **AgraQuant® Gluten G12® ELISA Test Kit** and **AgraStrip® Gluten G12® Lateral Flow Kit** were developed.



Both kits employ the **G12® monoclonal antibody**, which targets the most immuno-toxic gluten proteins, thereby taking food safety assurance analysis in a new direction.

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Why is a monoclonal antibody-based test advantageous over a polyclonal antibody-based test?

G12® MONOCLONAL GLUTEN ANTIBODY

All batches of antibody identical:

- Standardisation of test kits
- More consistent and reproducible results

Same level of quality amongst different lots of test kits

Antibody specifically detects target epitope (33 mer) that is toxic to celiac individuals

Increased specificity:

- No cross reactivity with non-toxic cereals
- Less False Positive results

Greater sensitivity in ALL matrices:

- Fewer False Negative results

Defined target peptide sequences are detected:

- QPQLPY (gliadin - wheat)
- QPQQPY (secalin – rye)
- QPQLPF (hordein - barley)

POLYCLONAL GLUTEN ANTIBODY

Batch to batch variability of antibody:

- No standardisation of test kits
- Results less consistent and reproducible

Varying levels of quality amongst different lots of test kits

Non-specific interaction of the antibody with the target toxic fragment

Decreased specificity:

- Increased chance for cross reaction to non-toxic cereals
- Higher chance of False Positive results

Lower sensitivity in difficult matrices:

- More False Negative results



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