

| Allergen                                                                    | LOD- Limit of Detection | LOQ - Limit of quantification | ULOQ- Upper Limit of Quantification | Reported as                                                             | Remarks                                                                                                                                                                                    |
|-----------------------------------------------------------------------------|-------------------------|-------------------------------|-------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ELISA test</b>                                                           |                         |                               |                                     |                                                                         |                                                                                                                                                                                            |
| Almond                                                                      | 1.25                    | 2.5                           | 20                                  | mg almond (23% protein) per kg of product                               | Accredited. Cross-reaction with apricot stones, mulberry, cherry species (e.g. mahaleb), figs                                                                                              |
| Cashew                                                                      | 1.25                    | 2.5                           | 20                                  | mg cashew nut (18% protein) per kg of product                           | Cross-reaction with pistachio                                                                                                                                                              |
| Egg                                                                         | 0.25                    | 0.5                           | 13.5                                | mg whole egg powder (49% protein) per kg of product                     | Accredited.                                                                                                                                                                                |
| Egg (lysozyme) on cheese/sausage                                            | 0.125                   | 0.25                          | 2                                   | mg lysozyme (sub-allergen egg) per kg of product                        | Egg lysozyme is used in cheese and sausages as a preservative (E1105)                                                                                                                      |
| Egg (lysozyme) on wine, whey                                                | 0.025                   | 0.05                          | 0.4                                 | mg lysozyme (sub-allergen egg) per kg of product                        | Egg lysozyme is used in wine as a clarifying agent                                                                                                                                         |
| Gluten (gliadin)                                                            | 2.5                     | 5                             | 80                                  | mg gluten per kg product                                                | Accredited, equivalent to AOAC 2012.01                                                                                                                                                     |
| Gluten (gliadin) competitive on hydrolysed products (soy sauce, malt, beer) | 5                       | 10                            | 270                                 | mg gluten per kg product                                                | Accredited. Specific ELISA analysis for hydrolysed gluten (soy sauce, malt extract, beer)                                                                                                  |
| Hazelnut                                                                    | 1.25                    | 2.5                           | 20                                  | mg hazelnut (15% protein) per kg of product                             | Accredited.                                                                                                                                                                                |
| Lupin                                                                       | 0.7                     | 1                             | 27                                  | mg lupin protein per kg of product                                      | Accredited. Slight cross-reactivity with chickpea, soya, hazelnut, turmeric and fenugreek.                                                                                                 |
| Macadamia nut                                                               | 1                       | 1                             | 25                                  | mg macadamia nut (13% protein) per kg of product                        |                                                                                                                                                                                            |
| Milk (total)                                                                | 1.25                    | 2.5                           | 67.5                                | mg milk protein (product-dependent conversion factor) per kg of product | Accredited, equivalent to AOAC 101501. Test casein and $\beta$ -lactoglobulin in one analysis. Method is developed for detection of cow's milk, cross-reacting with milk of other species. |

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| Milk (total - low detection)                                                        | 0.4                     | 0.4                           | 10                                  | mg milk protein (product-dependent conversion factor) per kg of product | Accredited upon request. Method is developed for detection of cow's milk, cross-reaction with milk of other species.                                                                                                                                                                        |
| Milk (casein)                                                                       | 1.25                    | 2.5                           | 67.5                                | mg casein (sub-allergen milk) per kg of product                         | Accredited. Method is developed for detection of cow's milk, cross-reaction with milk of other species.                                                                                                                                                                                     |
| Milk (casein) on chocolate, drinks and ice cream                                    | 0.25                    | 0.5                           | 13.5                                | mg casein (sub-allergen milk) per kg of product                         | Accredited. Method is developed for detection of cow's milk, cross-reaction with milk of other species.                                                                                                                                                                                     |
| Milk (casein) on wine                                                               | 0.125                   | 0.25                          | 7.75                                | mg casein (sub-allergen milk) per kg of product                         | Accredited. Method is developed for detection of cow's milk, cross-reaction with milk of other species.                                                                                                                                                                                     |
| Milk (casein - low detection)                                                       | 0.2                     | 0.2                           | 6                                   | mg casein (sub-allergen milk) per kg of product                         | Accredited upon request. Method is developed for detection of cow's milk, cross-reaction with milk of other species and soy protein isolate.                                                                                                                                                |
| Milk (cow) in goat/sheep milk                                                       | 0.125                   | 0.125                         | 4                                   | % cow's milk                                                            | For the detection of cow's and buffalo milk in products made from other species. Fraud detection.                                                                                                                                                                                           |
| Milk ( $\beta$ -lactoglobulin) for whey products                                    | 0.1                     | 0.2                           | 4.5                                 | mg $\beta$ -lactoglobulin (sub-allergen milk) per kg of product         | Accredited. $\beta$ -lactoglobulin is the most important milk protein in whey products (whey is a by-product of cheese production, in which the casein proteins end up in the cheese). Method is developed for detection of cow's milk, cross-reaction with milk from other animal species. |
| Milk ( $\beta$ -lactoglobulin - low detection) for whey products                    | 0.01                    | 0.01                          | 0.4                                 | mg $\beta$ -lactoglobulin (sub-allergen milk) per kg of product         | Accredited upon request. Method isn developed for detection of cow's milk, cross-reaction with milk from other animal species.                                                                                                                                                              |
| Milk ( $\beta$ -lactoglobulin) competitive for hydrolysed whey products (baby food) | 2.5                     | 5                             | 400                                 | mg $\beta$ -lactoglobulin (sub-allergen milk) per kg of product         | Hydrolysed whey products (baby food). Cross-reaction with other milk proteins such as casein, (lacto)albumin.                                                                                                                                                                               |
| Mustard                                                                             | 0.25                    | 0.5                           | 13.5                                | mg mustard seed (31,3% protein) per kg product                          | Accredited. Cross-reaction with rapeseed, canola, kidney beans, pinto beans, white beans, Sinapis arvensis (Herik, weed), Brassica carinata.                                                                                                                                                |

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| Peanut                  | 0.37                    | 0.75                          | 6                                   | mg peanut (22.2% protein) per kg product                            | Accredited. No known cross-reactions.                                                                                                              |
| Pistachio               | 1                       | 1                             | 40                                  | mg pistachio nut (20% protein) per kg product                       | Cross-reaction with cashews, chia-, pumpkin- and poppy seed, hazelnut, pepper, cayenne and chilli pepper.                                          |
| Crustaceans             | 10                      | 20                            | 160                                 | mg crustaceans (16% protein) per kg of product                      | Slight cross-reaction with mustard, turmeric, beans and certain molluscs such as mussels. Cross-react with insects.                                |
| Sesame                  | 1.25                    | 2.5                           | 20                                  | mg sesame seed (21% protein) per kg product                         | Accredited.                                                                                                                                        |
| Soy                     | 1.25                    | 2.5                           | 20                                  | mg soy protein (product-dependent conversion factor) per kg product | Accredited. Cross-reaction with some types of beans (including adzuki bean, mung bean (bean sprouts) and runner bean), dried green pea and peanut. |
| <b>PCR quantitative</b> |                         |                               |                                     |                                                                     |                                                                                                                                                    |
| Almond                  | 0.4                     | 1                             | 400                                 | mg almond (21% protein) per kg product                              |                                                                                                                                                    |
| Cashew                  | 0.4                     | 1                             | 400                                 | mg cashew nut (18% protein) per kg product                          |                                                                                                                                                    |
| Gluten                  | 0.4                     | 1                             | 400                                 | mg wheat flour (11% protein) per kg product                         |                                                                                                                                                    |
| Hazelnut                | 0.4                     | 1                             | 400                                 | mg hazelnut (15% protein) per kg product                            |                                                                                                                                                    |
| Lupin                   | 0.4                     | 1                             | 400                                 | mg lupine (42% protein) per kg product                              |                                                                                                                                                    |
| Macadamia nut           | 0.4                     | 1                             | 400                                 | mg macadamia nut (13% protein) per kg product                       |                                                                                                                                                    |

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| Mustard     | 0.4                     | 1                             | 400                                 | mg mustard seed (26% protein) per kg product       | In addition to detection of Sinapis alba (white mustard), Brassica juncea (brown or Indian mustard) and Brassica nigra (black mustard), there is cross-reaction with closely related species: Sinapis arvensis and Brassica carinata. No cross-reaction with rapeseed (Brassica napus) and oilseed rape (Brassica rapa). |
| Brazil nut  | 0.4                     | 1                             | 400                                 | mg Brazil nut (14% protein) per kg product         |                                                                                                                                                                                                                                                                                                                          |
| Pecan       | 0.4                     | 1                             | 400                                 | mg pecan nut (9% protein) per kg product           |                                                                                                                                                                                                                                                                                                                          |
| Peanut      | 0.4                     | 1                             | 400                                 | mg peanut (26% protein) per kg product             |                                                                                                                                                                                                                                                                                                                          |
| Pistachio   | 0.4                     | 1                             | 400                                 | mg pistachio nut (20% protein) per kg product      |                                                                                                                                                                                                                                                                                                                          |
| Crustaceans | 0.4                     | 1                             | 400                                 | mg black tiger shrimp (21% protein) per kg product | Also detects other shrimp and crustaceans such as crab and lobster. No detection of snails, shells, fish or insects. Cross-reaction with abalone, but no mussel, oyster, etc.                                                                                                                                            |
| Celery      | 0.4                     | 1                             | 400                                 | mg celery seed (18% protein) per kg product        | Slight cross-reactivity with carrot                                                                                                                                                                                                                                                                                      |
| Sesame      | 0.4                     | 1                             | 400                                 | mg sesame seed (18% protein) per kg product        | Cross-reaction with devil's claw.                                                                                                                                                                                                                                                                                        |
| Soy         | 0.4                     | 0.4                           | 400                                 | mg soy (36% protein) per kg of product             |                                                                                                                                                                                                                                                                                                                          |
| Fish        | 1                       | 4                             | 400                                 | mg salmon (20% protein) per kg product             | Also detects other fish species. No detection of snails, shells and crustaceans. Not suitable for high-processed products such as canned fish or fish sauce. Cross-reaction with duck (musk, Australian white-eye).                                                                                                      |

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| Walnut                                   | 0.4                     | 1                             | 400                                 | mg walnut (15% protein) per kg product |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>PCR qualitative</b>                   |                         |                               |                                     |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Cereals (wheat, rye, barley) combi-test  | 1                       | 1                             | -                                   | mg cereal per kg product               | Identifies each species individually: wheat (Triticum spp.), rye (Secale cereale) and barley (Hordeum vulgare).                                                                                                                                                                                                                                                                                                                                                                       |
| Oat                                      | 1                       | 1                             | -                                   | mg oats per kg product                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Legumes (pulses, beans, peas) combi-test | 1                       | 1                             | -                                   | mg legume per kg product               | Identifies each species individually: pulses (Fabaceae), beans (Phaseolus spp. & Vigna spp.) and peas (Pisum sativum).                                                                                                                                                                                                                                                                                                                                                                |
| Vegan (vertebrate animals)               | 0.01                    | 0.1                           | -                                   | % DNA                                  | Detects vertebrate animal: beef, pork, sheep, goat, horse, duck, fish, birds, frogs, but no insects, arachnids, molluscs and crustaceans or products produced by animals like honey, milk or eggs. Not suitable for highly processed products of animal origin such as gelatine.                                                                                                                                                                                                      |
| Molluscs                                 | 0.4                     | 0.4                           | -                                   | mg molluscs per kg product             | Detects shellfish, snails, squid (not shrimp, lobster and crab).                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>LC-MS allergen analysis</b>           |                         |                               |                                     |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Legal allergens                          | -                       | -                             | -                                   | Detected/ not-detected                 | Gluten (wheat, rye, barley, oats, spelt), shellfish, eggs (egg white and egg yolk), fish, peanut, soy, milk (casein and $\beta$ -lactoglobulin), nuts (almonds, hazelnuts, walnuts, cashews, pecans, brazil nuts , pistachios, macadamia nuts), celery (leaves, stems, celeriac), mustard (brown, black, white/yellow and related species such as rapeseed and canola, S. arvensis and B. carinata), sesame seeds, lupin, molluscs. Sulphite and lactose excluded (are not proteins). |
| Regional allergens                       | -                       | -                             | -                                   | Detected/ not-detected                 | Buckwheat, fenugreek, garlic, sunflower seeds, poppy seed (under development), lentils, pea (under development), faba bean, carrot, pine nuts, chestnut, coconut (under development). shea nut (in preparation)                                                                                                                                                                                                                                                                       |

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| <b>Lactose</b>                                                            |                         |                               |                                     |                                   |                                                                                                                                                                                                                                                                                     |
| Lactose HPAEC-PAD                                                         | 2.5                     | 5                             | 1000                                | mg lactose per kg product         | Accredited. No interference with other sugars. Official method ISO 22184:2021 - IDF 244:2021                                                                                                                                                                                        |
| <b>Sulphites</b>                                                          |                         |                               |                                     |                                   |                                                                                                                                                                                                                                                                                     |
| Sulphites LC-MS low detection                                             | 0.5                     | 1                             | 75                                  | mg SO <sub>2</sub> per kg product | Accredited. Interference high salt contents.                                                                                                                                                                                                                                        |
| Sulphites standard Distillation                                           | 10                      | 10                            | -                                   | mg SO <sub>2</sub> per kg product | Accredited. Total sulphite expressed as SO <sub>2</sub> (distillation method). Sulphides naturally present in products (cabbage, leek, onion, garlic, soy protein, asparagus, black olives) and volatile food acids (vinegar, acetate, propionic acid) give false-positive results. |
| <b>Total protein</b>                                                      |                         |                               |                                     |                                   |                                                                                                                                                                                                                                                                                     |
| <b>Product residue</b>                                                    |                         |                               |                                     |                                   |                                                                                                                                                                                                                                                                                     |
| Deep-frying oil quantitative - send in: used deep-frying oil              | -                       | -                             | -                                   | mg product/ l oil                 | Calculation of concentration product residue in oil (e.g. after filtering, settling) based on particle analyses.                                                                                                                                                                    |
| Rinse water quantitative - send in: product before cleaning + rinse water | 1                       | 1                             | -                                   | mg product/ l water               | Measurement of (product) turbidity in water. Determination of previous product (before cleaning) in rinse water.                                                                                                                                                                    |
| Rinse water quantitative - send in: rinse water                           | -                       | -                             | -                                   | Detected/ not-detected            | Measurement of (product) turbidity in water. Presence/absence according to Drinking Water Decree.                                                                                                                                                                                   |
| <b>Microscopic screening</b>                                              |                         |                               |                                     |                                   |                                                                                                                                                                                                                                                                                     |
| Allergens in agricultural products                                        | -                       | -                             | -                                   |                                   | Identification and determination of foreign materials like seeds, legumes or grains in vegetable products.                                                                                                                                                                          |
| <b>DNA barcoding (in wheat products)</b>                                  |                         |                               |                                     |                                   |                                                                                                                                                                                                                                                                                     |
| Mustard 1- specific                                                       | 20                      | 20                            | -                                   | mg mustard/ kg product            | B. juncea, B. nigra and Sinapis alba. Method is developed for wheat flour/gluten.                                                                                                                                                                                                   |

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| Mustard 2- extended | 20                      | 20                            | -                                   | mg Brassica/ kg product | Different Brassicaceae species are detected and distinguished: three mustard species (B. juncea, B. nigra and Sinapis alba) and B. napus (rapeseed), B. rapa (canola). No detection of closely related species S. arvensis (herik). Method is developed for wheat flour/gluten. |
| Mustard 3- complete | 20                      | 20                            | -                                   | mg Brassica/ kg product | Different Brassicaceae species are detected and distinguished: three mustard species (B. juncea, B. nigra and Sinapis alba) and closely related species S. arvensis (herik), B. napus (rapeseed), B. rapa (canola). Method is developed for wheat flour/gluten.                 |