

Know what's inside.



# GBA GROUP

## Analyses of Grains and Cereal Products



### Grains – An Essential Staple of Our Diet

Wheat, corn and rice are among the most important kinds of grains, followed by rye, barley, oats and millet, which are highly significant for mankind as a plant-based staple of our diet. They contain highly valuable plant proteins, important carbohydrates and vital fatty acids. The minerals contained within contribute to healthy growth and the various B vitamins support the nervous system. The ample amount of iron in grains can help supply the human metabolism. Grains are one of the most important sources of nutrients for the world population.

Due to the wide variety of uses for grains (e.g. bread, noodles, breakfast cereals), there is a diverse array of legal

requirements for these products. Of course, this involves testing for residues and contaminants or conducting microbiological analyses. Furthermore, the demand for testing is also gaining an even greater significance due to changing health conditions, such as increasing rates of gluten intolerance.

The GBA Group offers you competent consulting and a wide variety of product-specific analyses so you can maintain the level of safety required for trading your products.





GBA GROUP Analyses of Grains and Cereal Products

### GBA Laboratory Analysis

(Excerpts of our service portfolio)

#### Residue and Contaminant Analyses

- Pesticides (multi-methods (DFG-S19, QuEChERS) and many individual methods)
- Heavy metals (e.g. lead, cadmium, mercury)
- Polycyclic aromatic hydrocarbons [PAHs]
- 3-MCPD
- Acrylamide
- Mykotoxins
  - Aflatoxins (B1, B2, G1, G2)
  - Ochratoxin A
  - Fumonisin (B1, B2)
  - Zearalenone
  - Deoxynivalenol (DON)
  - T2- / HT2-Toxins

#### Further Analyses

- Nutritional values (Big 7 plus dietary fiber)
- Starch, cholesterol
- Vitamins
- Allergens / GMOs
- Dry matter, protein, ash
- Coumarin, morphine
- Impurities

#### Microbiological Analyses

e.g. total plate count, yeasts, molds, E. coli, salmonella

#### Classifications and appraisals according to food laws

- Support on product-specific scopes of analysis
- Assessment according to pesticide regulations

- Evaluation of limit values
- Review of package labelling (declaration)
- Valuation of analytical results

#### Your Advantages

##### Services

- Advice on food law issues
- Individual customer service representatives
- Support from sampling to reporting of results
- Express analyses
- Customized IT solutions for data transfer

##### Expertise

- Long-term experience
- Profound technical knowledge
- Location-based analytical competencies
- Fast and smooth order processing

##### Quality

- Accreditation acc. to DIN EN ISO/IEC 17025:2005
- Continual and successful participation in inter-laboratory proficiency testing
- Participation in standard committees and DIN working groups
- Numerous memberships in professional associations



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