



Product information

As of 10/2025

Analysis of cereals and cereal products

From residues to nutritional values - all parameters from a single source



As a food laboratory, we are your reliable partner when it comes to the analysis and testing of cereals and cereal products. With state-of-the-art technology and precise procedures, we ensure that your products meet the highest quality standards and are safe for consumption. Rely on our expertise to guarantee the food safety and quality of your grain products - from harvest to the end consumer.

Recognize risks at an early stage

A variety of factors can influence the quality and safety of cereal products, which is why comprehensive analyses are essential. These include testing for harmful substances such as mycotoxins, pesticide residues and heavy metals, which can be caused by environmental influences or improper storage. Microbiological tests are also important in order to identify potentially dangerous germs such as salmonella or E. coli.



Your plus:



Fast

- ▷ Pesticide analyses in 48 h
- ▷ Express analysis in 24 h
- ▷ Individual methods (e.g. glyphosate, chlormequat) in 24-48 h



Safe & competent

- ▷ State-of-the-art equipment and high capacities
- ▷ Recognized by BNN, VLOG, GAFTA, FAVV, QS
- ▷ Assessment according to BNN, QS and EU standards
- ▷ Everything from a single source: also feed, soil, fertilizer, seeds



Service & support

- ▷ Personal contacts in the laboratory
- ▷ ALOORA customer portal: Reports, invoices, preliminary findings online
- ▷ Support with sample logistics, shipping



Quality & Innovation

- ▷ Qualified, motivated employees
- ▷ Comprehensive quality assurance
- ▷ Intelligent IT solutions
- ▷ Networked in national specialist groups and expert circles



AGROLAB LUFA GmbH – Kiel

Studies on contaminants and residues:

- Pesticide multi-methods
- Acidic pesticides (incl. phenoxy-carboxylic acids)
- Polar pesticides (glyphosate/AMPA, chlormequat/mepiquat, ethephon, chlorate/perchlorate etc.)
- Fumigants
- Ethylene oxide and 2-chloroethanol
- Mycotoxins (aflatoxins, ochratoxin A, DON, zearalenone (ZEA), fumonisins, ergot alkaloids etc.)
- Heavy metals
- Pyrrolizidine and tropane alkaloids
- Dioxins/furans and PCBs
- PAHs and MOSH/MOAH
- GMO screening and quantification of GMO components
- Microbiology
- Allergens
- Nutritional value analyses (incl. protein, ash and others)
- Vitamins, minerals and trace elements

AGROLAB Agrarzentrum GmbH – Leinefelde-Worbis

Examination of grain and flour quality:

- Water content
- Crude protein
- Falling number
- Sedimentation
- Wet gluten
- Hectoliter weight
- Thousand grain weight
- Alveogram*, extensogram*, farinogram*
- Amylogram
- Impurities / black impurities / botanical impurities
- Mycotoxins* (e.g. DON, ZEA and OTA) and ergot
- Sieve sorting
- Sensory testing

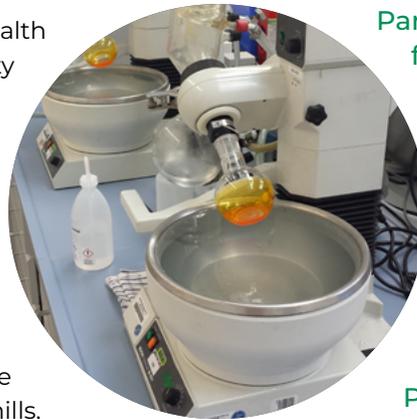
In addition to quality parameters, other samples from the agricultural sector, such as soil samples or fertilizers, can also be tested in Leinefelde-Worbis.

*Analyses are carried out as part of a subcontracting process.

This careful analysis not only minimizes health risks, but also guarantees product safety and quality for the end consumer. This is crucial both for the protection of consumers and for compliance with legal requirements.

Quality as a key factor for mills

Checking the nutrient content, such as protein or gluten content, also helps to ensure product quality. The quality of the grain used is of central importance for mills, as it has a direct influence on the grinding process and the quality of the end product.



Parameters for consistent flour quality

To ensure consistent flour quality and optimum processability, grain samples must be analyzed for various parameters. These include moisture content, protein content and falling number or alveogram.

Protection against contamination

The analysis of impurities such as foreign substances, molds or pests is also crucial to guarantee smooth production and safe food. Precise tests allow potential quality problems to be identified at an early stage and grain deliveries to be adjusted accordingly. This helps mills to optimize production costs, meet legal requirements and satisfy the high demands of their customers.

All information without guarantee. This document has been prepared by AGROLAB GROUP with the utmost care. However, we assume no liability.

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If you have any questions about these tests, our sales representatives and customer service team will be happy to advise you! You can find your contact person on our website under "Find your regional contact".

