



Analysis of Vegetable Oils and Fats

Key Raw Materials and By-products in Edible Oil Production

Oilseeds and oil fruits are important agricultural commodities and trade goods worldwide. Oleaginous plants have been used by mankind for thousands of years to obtain fats and oils. Along with carbohydrates, edible fats and oils are an essential part of the energy-providing food components. They are also key ingredients in countless culinary and industrial applications, where their functional properties

such as stability, mouthfeel, and nutritional value are specifically tailored through careful processing and blending. Rising quality expectations and global sourcing conditions require precise monitoring throughout the production process.

It is a long way from an agricultural product to refined cooking oil or vegetable margarine. The flow of goods is globally interconnected and the processing

Products we are analysing:

+ Oilseeds

- E.g. soy
- Rape seed, Canola
- Sunflower seeds
- Palm kernel and -fruit



+ All other kinds of oil and oleaginous fruits crops

- Vegetable oils
- Special oils (Algae oil, fish oil)
- Oleochemicals (Glycerol, Fatty acids, Fatty alcohols)
- Lecithin
- Fat-soluble vitamins (Vitamine E)
- Extraction residues and process by-products e.g. for the animal feed industry





Your Plus:

AGROLAB is your competent analytics partner for oil seeds, edible oils and fats and side products:

- + Experienced experts with strong networks and active participation in international expert and standardisation committees – securing your knowledge advantage.
- + Cutting-edge analytical technology and secure measurement capacity – thanks to site redundancies across the AGROLAB network

- + Recently expanded lab in Barendrecht: 3,600 m² of specialised facilities at AGROLAB Dr. Verwey BV.
- + Seamless sample reception and order processing at all AGROLAB food laboratories
- + Comprehensive quality assurance and digital support via our user-friendly IT platform ALOORA
- + Communication in your national language or English.
- + Friendly, highly qualified and motivated staff committed to your needs

chains are complex. Regular analytical tests along the entire production chain are necessary to ensure the properties, authenticity and product safety of edible oils and fats expected by food producers and consumers. The proper testing of raw materials, intermediate products, by-products and end products of oil extraction requires not only a sound knowledge of the goods themselves, but above all specific analytical know-how and many years of experience.

AGROLAB Dr. A. Verwey – one of the most experienced and internationally accredited specialist laboratories for oil and fat analysis

Dr. A. Verwey is one of the leading, internationally recognised and European-accredited laboratories (e.g. FOSFA, FEDIOL, QS, GMP+) in oil and fat analysis. Founded over 100 years ago in Rotterdam (NL), more than 70 AGROLAB experts now analyse approx. 160,000 samples annually using state-of-the-art methods. Our services are tailored to the specific needs of goods handling at Europort Rotterdam

– Europe's leading import hub for oilseeds, oil fruits and their derivatives.

Quality assurance - from field to trough to plate.

Routine tests that we offer:

- ▶ **Value-determining parameters of agricultural raw materials** (e.g. oil content, moisture, foreign matter)*
- ▶ **Fat-specific parameters and quality indicators**
 - Classical fat parameters
 - Processing and stability indicators
 - Verification of compliance with key reference values and trade standards
- ▶ **Constituents relevant for quality and authenticity** (e.g. free fatty acids, fatty acid spectrum, sterol pattern)
- ▶ **Undesirable substances from processing or the environment** (e.g. MOSH/MOAH, 3-MCPD/glycidyl esters, dioxins/PCBs, PAHs, mycotoxins, pesticides, solvents, PFAS, ETO, plasticisers such as phthalates, heavy metals)
- ▶ **Microbiological suitability and sensory characteristics**



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* These examinations are also offered by our AGROLAB Agricultural Analysis Centre (AAZL) in Leinefelde (D) according to FOSFA methods. All information without guarantee. This document was prepared by AGROLAB GROUP with the utmost care. However, we assume no liability.