COMPREHENSIVE ANALYTICAL SERVICES

MAKING THE DIFFERENCE

OUR SOLUTIONS FOR THE FOOD AND NON-FOOD MARKETS

PASSION

EXPERTISE

TRUST
Thanks to our solid experience as a market leader, we are able to meet your requirements in terms of analysis of products of animal or plant origin for the food and non-food markets. We quality control your samples and check for radioactivity, phytosanitary residues, heavy metals, melamine and a whole range of other contaminants. By choosing SGS, you get a laboratory equipped with cutting-edge technologies, the most advanced control methods and the expertise of engineers and technicians who specialise in analytical chemistry, biochemistry and biotechnology.

**INDISPUTABLE RESULTS**

With SGS, you are guaranteed reliable results thanks to its many accreditations (GAFTA, FOSFA, GMP+, MATIF, export certification, listing in Incograin contracts managed by the Paris Gran Trade Association, INAO, KFDA, etc.) and its wide range of COFRAC accredited parameters (accreditation no. 1-6464) and BPL recognition (description of scopes upon request).

**ANALYSIS SERVICES**

**PHYSICAL AND CHEMICAL ANALYSES USING OFFICIAL METHODS:**
- Labelling conformity
- Quality monitoring and screening
- Nutritional analyses
- Mineral analyses and green chemistry

**CONTAMINANTS CHECKS:**
- Phytosanitary residues
- Mycotoxins
- Heavy metals
- GMOs
- Specification of species
- Radioactivity

**QUALITATIVE/QUANTITATIVE ANALYSES**

SGS performs all of your analyses relating to technological, health, phytosanitary and chemical criteria in accordance with the requirements of food quality and safety standards. It covers all agricultural products from seeds, cereals, oilseeds, peas and beans, fatty substances, sugars, oil cakes, flour, molasses and many other raw materials to by-products, co-products and semi-final processed products for the food or non-food industries.

**MYCOTOXINS**

The toxicity of mycotoxins varies depending on their type and the end use of the product being analysed. Depending on the necessary detection and quantification levels, SGS uses the ELISA (Enzyme Linked Assay Immuno) test or liquid chromatography to identify and quantify the presence of mycotoxins in products intended directly or indirectly for the food market such as semi-final processed products.

**PHYTOSANITARY PRODUCT RESIDUES**

Many foods need multi-residues analysis to confirm the absence of chemicals that may be dangerous for the end consumer. The SGS laboratory uses the most up-to-date equipment: LC/MS/MS, GC/MS/MS – chromatography combined with mass spectrometry in tandem, enabling it to detect a large number of pesticides. These cutting-edge technologies are also used to identify and quantify compounds individually.

SGS also offers specific detection to be able to process a broad spectrum of matrices.

**RADIOACTIVITY**

Before you can place your products on the market, you have to ensure that their radioactivity levels are below the legal limits. In some cases, the presentation of an official certificate may be necessary to prove that your products have been tested.

Our COFRAC accredited laboratory (accreditation no. 1-6464, scope available on www.cofrac.fr) conducts these tests using the latest technology: gamma spectrometry, gas-flow proportional counter for alpha and beta measurements and scintillation.

**GMO ANALYSIS**

Some regulatory and contractual specifications call for products to be free from genetically modified organisms (GMOs). The DNA analysis is performed using the PCR technique. This may be qualitative or quantitative, guaranteeing a detection level of 0.01%.

**SPECIES IDENTIFICATION**

Robusta or Arabica coffee? Real Bourgogne snails? Pure Basmati rice or a mixture? Presence/absence of pork DNA?

SGS offers a range of services to answer these and many other questions.

**SGS BENEFITS**

With offices and labs around the world, our service delivery approach to our clients is identical around the world and benefits from the largest independent network of experts.

- Global network
- Data management and reporting
- Harmonized procedures
- Technical competence
- Customized service
- Technical assistance

**TECHNOLOGY AND INNOVATION**

Innovation is at the heart of our business. New technologies deliver knowledge, insight, transparency and efficiency for our customers.

**Laboratory Information Management System (LIMS)**

SGS LIMS is a software system to support laboratory operations. It improves the productivity and efficiency of processes, facilitates sample management and tracking, allows workflow automation and analytical instrument integration.

In turn, it reduces turnaround times and the risk of human error. Advanced tools meet customer needs and demonstrate compliance with standards and regulations. Test results and reports are accessible via a web portal, in almost real-time, 24/7.

**CONTACT US**

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