AGQ Labs
For a better and safer world
agqlabs.com

TECHNOLOGICAL SERVICES PLATFORM

AGQ Labs is a chemical technological center, with 25 years of experience, based on testing laboratories, advanced essays and specialized chemical engineering. AGQ Labs provides solutions and services for agro-food, environmental, industrial and mining sectors. We deliver profitable, sustainable and scientifically-backed solutions tailored to our client's specific needs.

Internationalization

Our network of laboratories and commercial offices around the world provides support to our clients in the main markets.

Efficiency

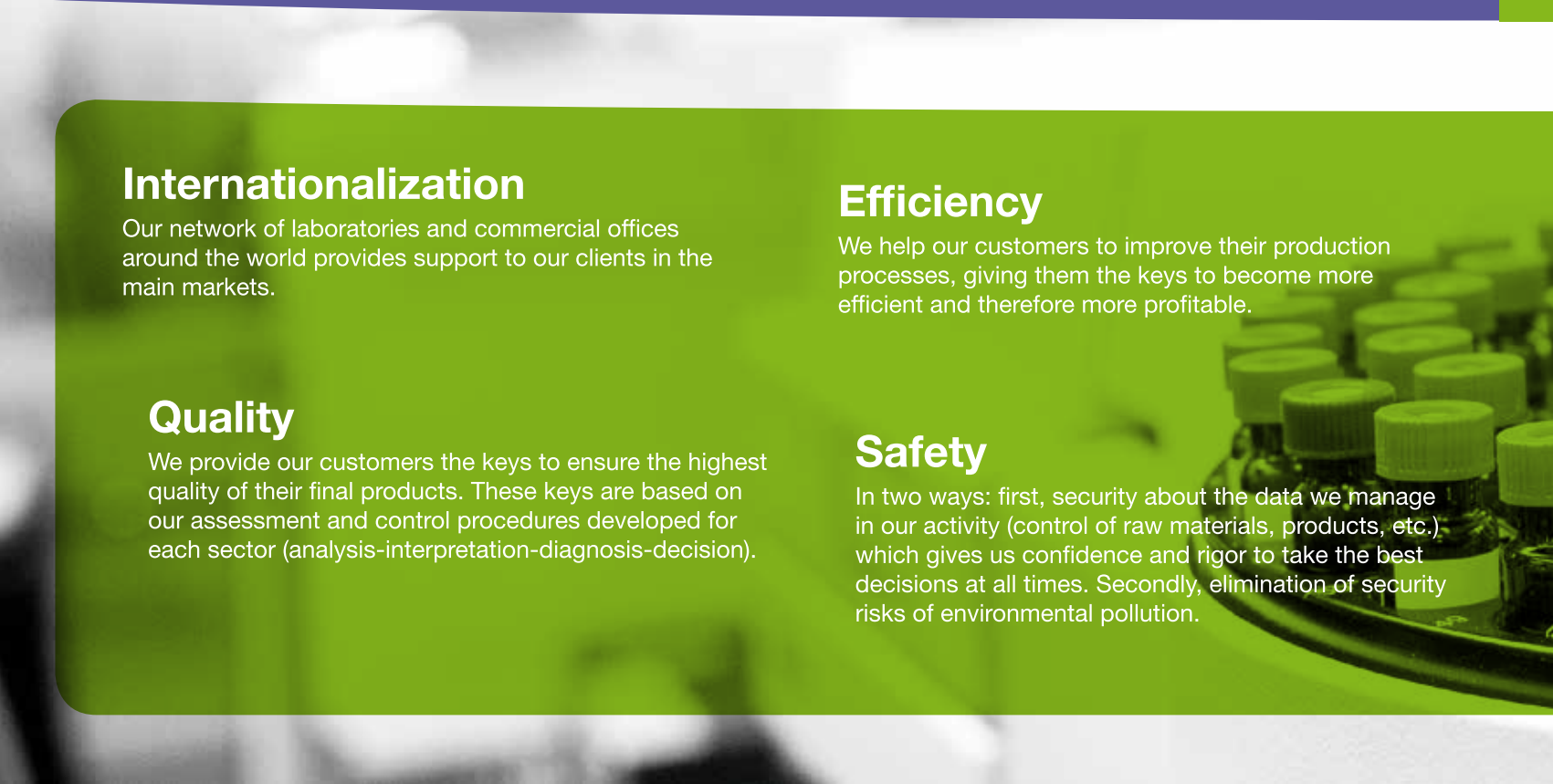
We help our customers to improve their production processes, giving them the keys to become more efficient and therefore more profitable.

Quality

We provide our customers the keys to ensure the highest quality of their final products. These keys are based on our assessment and control procedures developed for each sector (analysis-interpretation-diagnosis-decision).

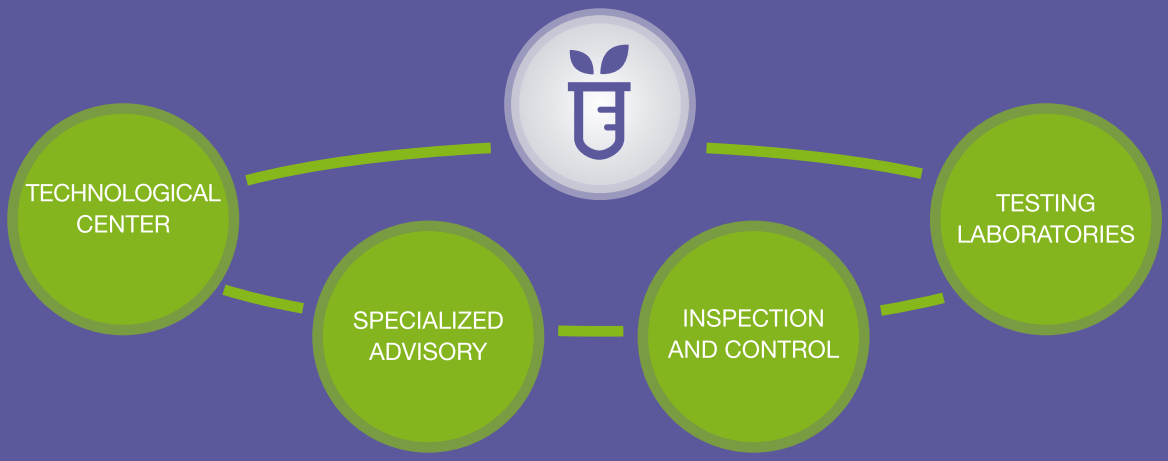
Safety

In two ways: first, security about the data we manage in our activity (control of raw materials, products, etc.) which gives us confidence and rigor to take the best decisions at all times. Secondly, elimination of security risks of environmental pollution.



Global solutions

AGRONOMY FOOD ENVIRONMENTAL MINING HEALTH & SAFETY



Acknowledgment

By customers, global market, public and scientific institutions, and socio-economic environment in each country we work in. This recognition is given to us because of our technological capability, independence, accreditation level and professional background.

Accesibility

Our online platform BeSafer goes far beyond being a site where you can view data, by providing comparisons with legislation, statistics, trends, benchmarking, etc.

Sustainability

Beyond consulting for improvement in terms of environmental management, we focus on doing every productive activity has the minimum environmental impact. This is possible because we deepen in the analysis of each system or process in order to provide the best solution.

Laboratories

Our greatest capabilities lie in our laboratory network. All of them are accredited under ISO17025, and equipped with the most advanced technology for their range of tests.

They have in common to be equipped with the most advanced technology for their range of tests, as well as the specialization and orientation to the market they serve, developing robust and competitive analytical methods. All the technical staff is specialized in the analytical tests of each market.

- AGRONOMIC
- FOOD SAFETY
- FOOD QUALITY
- ENVIRONMENTAL
- MICROBIOLOGICAL
- MOLECULAR BIOLOGY
- RADIOACTIVITY
- TOYS AND SCHOOL MATERIAL
- GEOCHEMICAL
- MINING-METALLURGICAL

BeSafer

GET THE MAXIMUM PERFORMANCE TO YOUR ANALYTICAL RESULTS

besafer.info

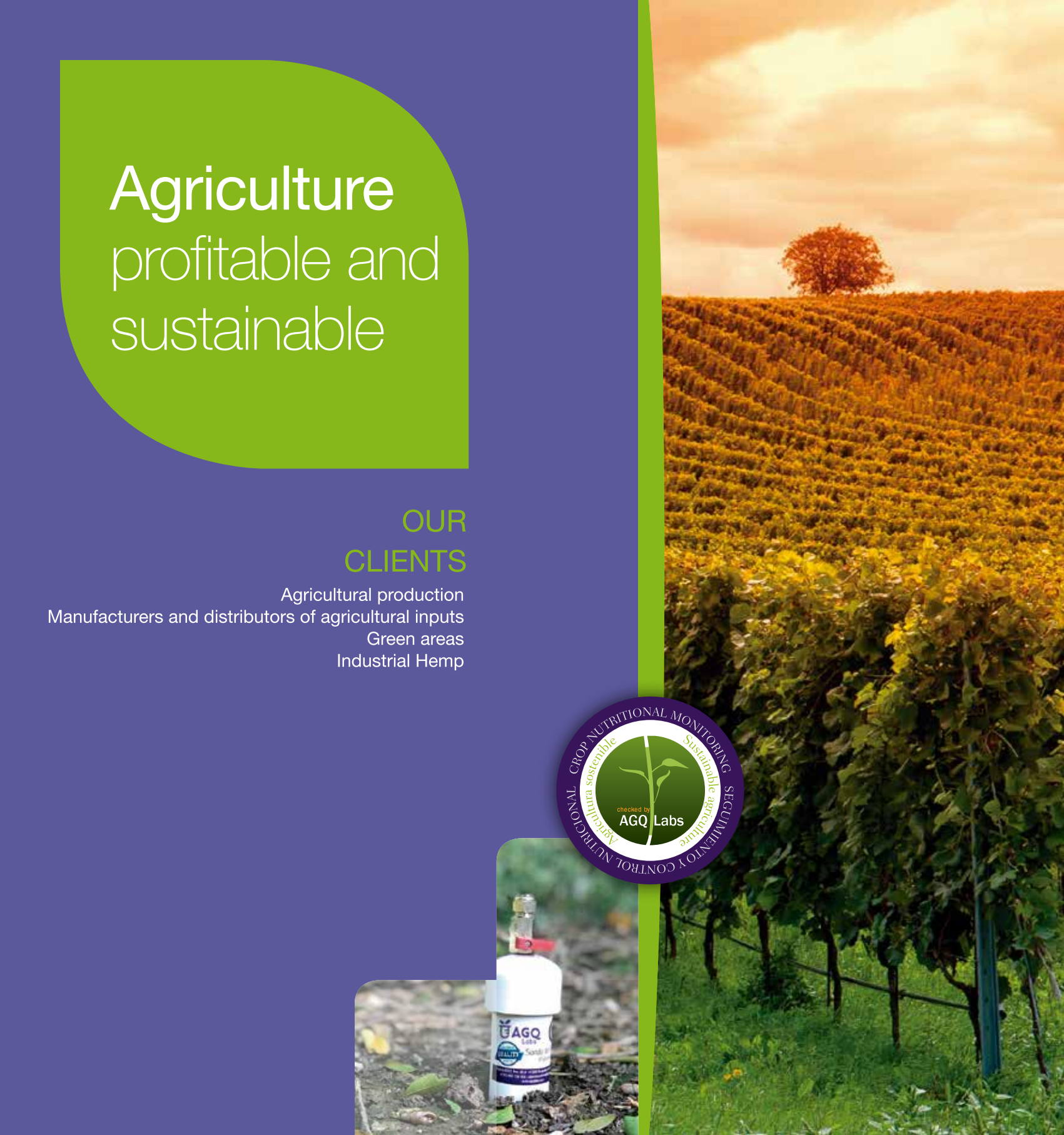
In our online platform and app

- **Monitoring the status of your analyses**
- **Access and download analytical reports**
- **Statistical treatment and graphics with results**
- **Access to detected contaminant statistics**
- **Global agreement with MRL Data Base to update MRLs**

Agriculture
profitable and sustainable

OUR CLIENTS

Agricultural production
Manufacturers and distributors of agricultural inputs
Green areas
Industrial Hemp



ACTIVITIES/SERVICES

- **Crop Nutritional Monitoring (patented),** based on analytical control - through soil and foliar solutions - of the soil-plant-water system, and advice from our team of agronomists, all of them specialists in agricultural chemistry and plant nutrition
- **Analysis** (irrigation water, fertilizer solutions, soil solutions, plant pathology, etc.)
- **Water and nutritional audits**
- **Green areas control**
- **Organic production**
- **Efluents valorization**
- **Advanced analysis:** Cell wall calcium, Arginine, Starch
- **Humidity control in soil with MIR probes**
- **GIS Maps, NDVI**
- **Irrigation and nutrition training**
- **Technical Due Diligence in agricultural projects**

UTILITIES

- **Cost savings in water and fertilizers (up to 40%)**
- **Increased production and productivity. More profitability**
- **Better quality crops and products. Properties and conservation**
- **Overcoming problems bidders (salinity, toxicities, etc.)**
- **Sustainability (environmental impact minimization): rational use of resources (water and fertilizer) and minimization of leachate (zero environmental pollution)**

DIFFERENTIAL VALUES

Presence in the most important countries of agricultural production in Europe, Africa and America, where we advise more than 2 million hectares of crops of interest.

Exploitation of the patent's tool for control of leachate, as well as bad practices detection.

Database with millions of data that has allowed us to have references for the nutritional needs of the majority of crops.

Optimization Studies in fertilization, of wastewater use, use of tributaries, characterization of soils, waters of homogenization of the subscriber.

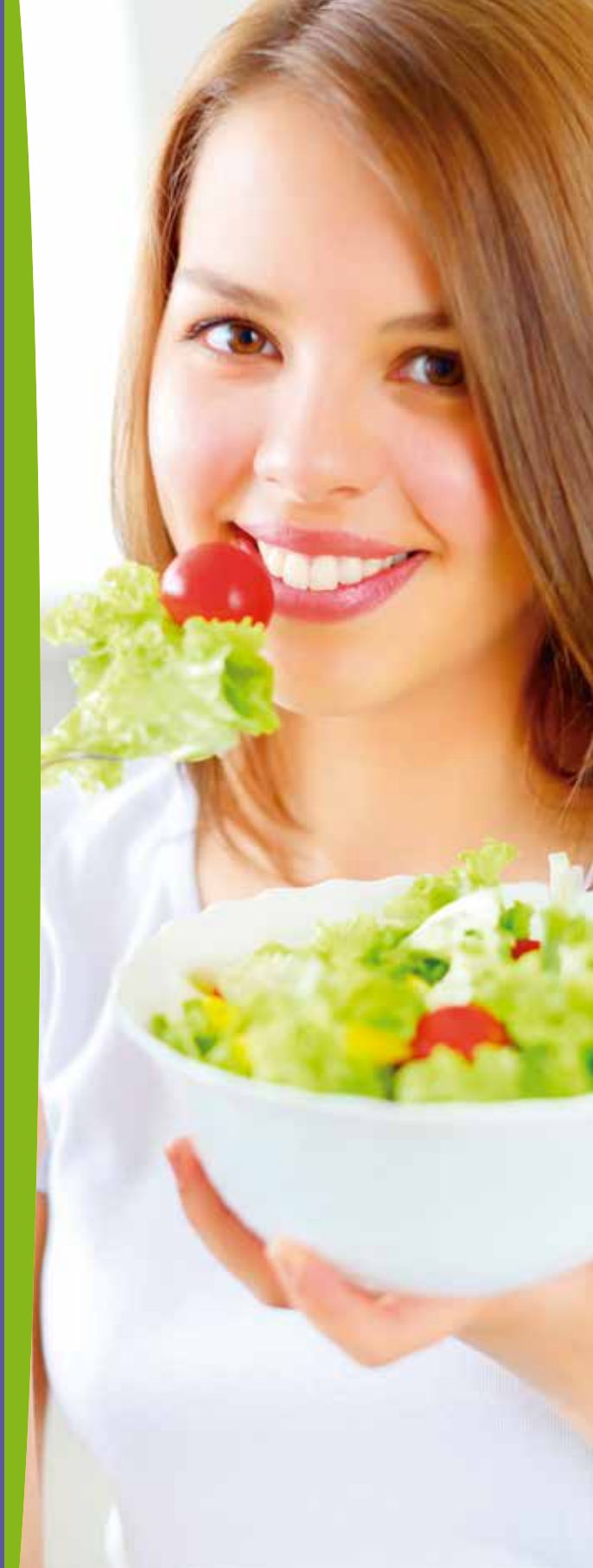
Agronomic Team specialized in crop nutrition and irrigation.

Energy crops for biomass production.

Food Safety & Quality

OUR CLIENTS

Agricultural production
Aquacultural production
Processed food
Food service. catering
Distribution
Drinks
Animal nutrition
Coffee and cocoa
Teas, infusions and aromatic
Green and cured tobacco
Industrial Hemp



ACTIVITIES/SERVICES

- **Laboratory analysis**
  Food safety analysis (residues of pesticides, heavy metals, mycotoxins, antibiotics, dyes, microbiology, etc.). Food quality analysis (nutritional values, vitamins, polyphenols, organic acids, etc.), Pathology. Molecular biology (allergens, GMOs, varietal identification).

- **Suppliers control base**
  Risk analysis, design of sampling programs, monitoring and control at origin and destination.

- **FDA Detentions**
  Our lab in California is authorized by FDA.

- **Lifetime studies**
  In order to determine the time that a food remains suitable for consumption.

- **Specialized advice**
  Sanitary problems solutions, review of internal control processes, implementation of quality systems, R&D advice to agri-food companies.

UTILITIES

- **Meet the demands and regulations to prove that their products are safe and of high quality.**
- **Elimination of risks in food processing processes.**
- **Our laboratories are recognized and valued by the majority of international supermarkets.**

DIFFERENTIAL VALUES

We lead the sector of analysis of pesticide residues in fruits and vegetables.

Technical and technological Differential capacity. Advanced analytical chemistry.

International accreditation that guarantees our analysis.

Specialized knowledge to tackle innovative projects related to food safety and quality.

Operational and logistical capacity to control suppliers in 20 countries.

Environmental Solutions

OUR CLIENTS

Energy
Industry
Water cycle
Environmental services consultans

UTILITIES

We have **specialized technical teams** capable of correctly interpreting the results of the tests, thus being able to provide adequate and efficient solutions.

Our **combined knowledge** in agronomy, environment and mining allows us to address projects for the reuse of effluents for agronomic purposes.

ACTIVITIES/SERVICES

Water

Analysis of drinking water.
Quality of surface, underground and marine water masses.
Analysis of wastewater (industrial and urban).

Specialized Analysis

Environmental Radioactivity.
Especiation of metals (As - Hg).
Emerging Pollution Studies.
Characterization of industrial processes and chemical substances.
Analysis of thermal oils.

Outsourcing

Services of design, implementation, operation and accreditation of laboratories in customer facilities.

Atmosphere

Emisions (combustion gases and particles).
Air quality (ozone, oxides of Nitrogen and Sulfur, hydrocarbons, offensive odors).
PM10, PM2,5.
Analysis of metals in particulate material.

Solid Matrixes

Soil.
Residues.
Sediments.
Sludge.

SPECIALIZED ENVIRONMENTAL SERVICES

Environmental Sampling

Planification, design and execution of environmental samplings accredited by ISO 17025.

Environmental inspections accredited under ISO 17020.
Monitoring and compliance of Environmental Surveillance Plans.

Environmental Studies

Studies of yields of water treatment and purification processes.
Water mass quality studies.
Valuation (reuse) of effluents.
Waste characterization.

Studies of atmospheric emissions for process optimization.
Acoustic tests of noise immission and acoustic modeling.
Studies of potentially contaminated soils and groundwater.

DIFFERENTIAL VALUES

Maximum quality standards (17020, 17025, GLP, etc.), the highest technology and a team of people of high technical level allows us to undertake highly complex environmental and industrial studies.

Accredited and approved entity to verify compliance with environmental laws in each country.

Specialized in the analysis of organic micro-contaminants in soil and water.

Mining, efficient and sustainable

OUR CLIENTS

Geological exploration
Metallurgical mining exploration projects
Residues and mining liabilities

ACTIVITIES/SERVICES

- **Chemical Analysis**
  A multi-elemental analysis(ICP, AAS, XRF). Precious Metals (Fire Assay). Sulfur and carbon speciation LECO. “High Grade” – Volumetries. Sequential extractions (Leinz, Tessier..). Radiactivity.

- **Metallurgy and mineralogy**
  Metallurgical tests at laboratory and semi-pilot scale (flotation, gravimetric, leaching, cyanuration). Elaboration of analysis standards. Mineralogical analysis (Diffraction and Microscopy). Granulometric analysis. Physical properties of materials (flammability, explosivity, viscosity, ...)

- **Treatment and valorisation of mining effluents**
  Chemical characterization of effluents. Determination of total thiosales and speciation. Laboratory-scale testing (selective precipitation, ion exchange, flocculation, adsorption). Biooxidation / Bioenergy.

- **Outsourcing**
  Management of laboratories in the facilities of our clients.

- **Environmental Consultancy**
  Environmental Baseline Studies . Environmental Surveillance Plans. Waste characterization (RD975/2009, EPA). Characterization of environmental impacts of anciente Mining Liabilities . Toxicological and bioavailability tests.

- **Environmental Geochemistry**
  Static Tests (ABA, NAG, etc.). Kinetic Tests (MWMP, TCH, Field-test, etc.). Leaching Tests (EN 12457-4, SPLP, TCLP, etc.). Ad-hoc tests for simulation of behavior and chemical stability of materials over time.

DIFFERENTIAL VALUES

Leaders in global services for mining. Specialization.

Values that define us: integrity, transparency, excellence and teamwork.

We work with the main mining companies, both in the previous pre-operational stages, as well as in the subsequent exploitation phases, as well as with the main environmental-mining consulting companies.

We are an international benchmark in geochemistry studies, with several projects carried out in Chile, Peru and Spain.

UTILITIES

- **Flexibility (**Focused on the search for the most appropriate solution in each case, and the possibility of adjusting our analytical and assay methods to the particular needs of the client)

- **Technical and analytical capacity** (State-of-the-art instrumental equipment and technical means to tackle projects at laboratory and semi-pilot scale)

- **“Open Door Policy”** (Total transparency towards our customers)

Health & Safety

OUR CLIENTS

Toys and school material
Cleaning and disinfection products
Pharmacy and cosmetics
Food packaging
Hygiene and industrial security

ACTIVITIES/SERVICES

- **Toys and School Supplies**
  Physical tests: mechanical physical resistance, flammability. Chemical tests: heavy metals, solvents, toluene, nitrosamines, phthalates, etc.

- **Cleaning and disinfection products**
  Checking labeling. Determination of wealth. Physical chemical properties. Stability studies.

- **Cosmetics and pharmaceutical products**
  Microbiological assays. Toxicity tests. Determination of wealth. Physical and chemical properties under USP standards.

- **Food packaging**
  Analysis of pollutants. Pesticides, phthalates, bisphenol A, etc. Heavy metals Transfer studies of both metals and plastics. Determination of monomers and solvent residues.

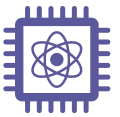
- **Hygiene and industrial security**
  Air quality analysis, Radon analysis.

UTILITIES

- **Optimization of controls, since we have multiscreening methods that make it possible to detect different pollutants in the same analysis.**

- **We advise our clients in the design of their control plan.**

DIFFERENTIAL VALUES



Our technological capacity, since we have the most advanced equipment for these controls (Chromatography GC-MS and LC-MS, ICP-MS, etc.)

Maximum level of accreditations, both local and international (ISO-17025, EN-71 y BPL)

AGQ Labs has the capacity to perform the majority of analyses, and tests that all these products need to adapt to the European and American regulations.

EUROPE

AGQ Spain
agqlabs.es
alkemi.es

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NORTH & CENTRAL AMERCA

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