



COTECNA

AGRICULTURE

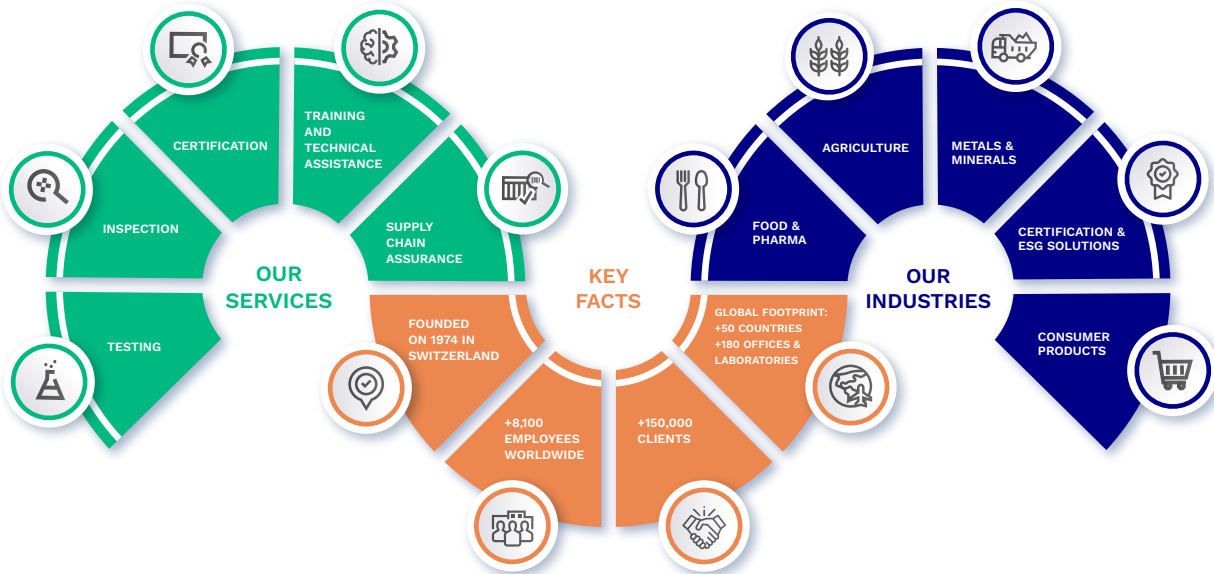
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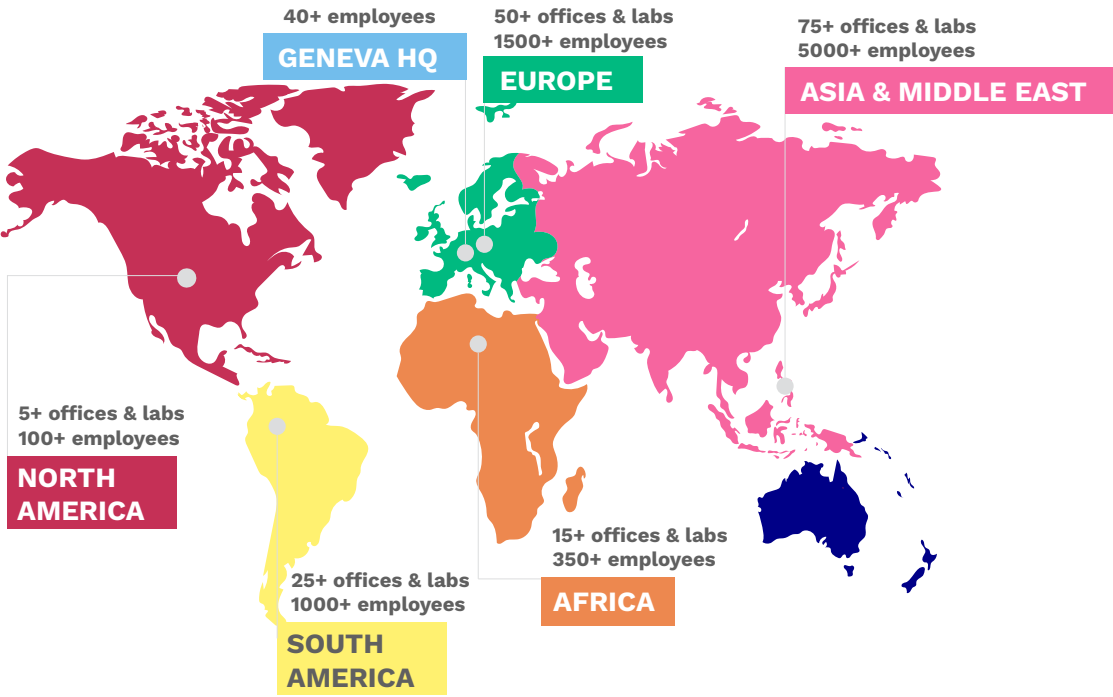


ABOUT COTECNA

COTECNA is a leading provider of testing, inspection, and certification services.



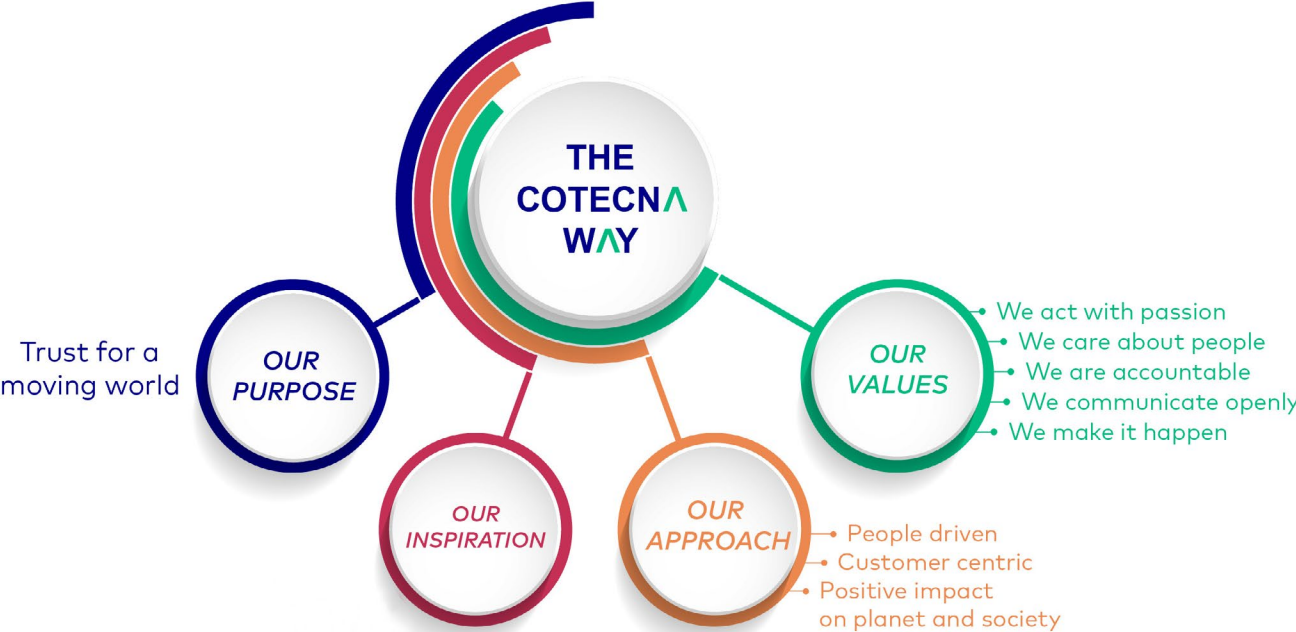
For over 50 years, we have been supporting agriculture, food and pharma, metals & minerals, and consumer products supply chains all over the world. We provide testing, inspection, and certification services to help our clients navigate evolving regulations, ensure product compliance, and support their sustainability journey.





THE COTECNA WAY

The Cotecna Way is what drives us as a company and sets us apart. It's the common language that inspires and guides the way we operate for our customers, stakeholders, and employees.



OUR INSPIRATION

Our inspiration is what makes Cotecna special. We operate across 3 dimensions – Dream, to Dare, and to Deliver. – the 3Ds. These convey the dynamism and ambition of our company and the promise to all our clients.



GROUP ACQUISITIONS

2014		2015		2017		2018	2019	2020	2021		
Philippines		South Africa		Romania	Netherlands	India	Italy	China	Spain	China	UAE
 Part of the Cotecna Group		 Part of the Cotecna Group		 Part of the Cotecna Group	 Part of the Cotecna Group	 Part of the Cotecna Group	 Part of the Cotecna Group	 Part of the Cotecna Group	 Part of the Cotecna Group	 Part of the Cotecna Group	 Part of the Cotecna Group
Expertise in various commodities including coal and mineral ores, petroleum products, steel and steels products, agricultural commodities, and chemicals.		Leader in South Africa in the coal mining and export industry, offering sampling, analysis, certification and consulting services.		One of the leading inspection & testing companies in Romania, specialised in providing agricultural, fumigation, fertiliser, mineral and metal services.	Leading European laboratory for the testing of food and feed products, performing analyses on over 43,000 samples a year, including dioxins, PCBs, GMOs, heavy metals and pesticides.	One of India's leading analytical testing laboratories, providing a range of solutions across numerous sectors, including food and beverages, minerals and ores, pharmaceuticals, and industrial hygiene.	One of the largest analytical laboratories in Europe offering testing services for food & feed products, supplements, cosmetics, and pharmaceutical products. Neutron provides chemical, biochemical, microbiological, physical, and sensory analysis.	One of the preferred service partners by over 20,000 customers in multi-industry sectors, BCK issued over 21,900 certificates up to the end of July 2025, covering multiple certification, auditing and verification programs, with a particular focus on Food and Sustainability schemes.	Laboratory providing its clients a complete range of services from agronomy to chemical testing on a wide range of products with a focus on fruits, vegetables, and holding a leading position in the fertilizer sector.	One of the largest food safety testing laboratories in Shandong Province – the major agri-food production region in China with comprehensive chemical, biochemical, microbiological, and physical testing capabilities.	Analytical testing and calibration laboratory that provides advanced qualitative standardization facilities of Testing, Inspection, and Consultancy services across the globe.
2022						2023	2023	2024		2025	
Germany, Denmark and Poland		USA	Brazil	China	India	Chile	China	China	Italy	Malaysia	
 Part of the Cotecna Group		 Part of the Cotecna Group	 Part of the Cotecna Group	 Part of the Cotecna Group	 Part of the Cotecna Group	 Part of the Cotecna Group	 Part of the Cotecna Group	 Part of the Cotecna Group	 Part of the Cotecna Group	 Part of the Cotecna Group	
Market leader in the supervision business of grain, oilseeds, feedstuffs, and liquid agri-bulk commodities, providing fast and efficient services without compromising on the highest standards of quality.		Leading laboratory & consultation services company that conducts consumer product safety and compliance testing with accredited laboratories in USA, Europe, Chinese mainland, Chinese Taiwan, Vietnam for bikes, and accessories, e-mobility, helmets, children's products and additional sporting goods.	Laboratory specialized in phytosanitary diagnosis analysis, analysis of biological control products for agronomic use, seeds testing and agronomic efficacy testing, operating throughout Brazil and abroad.	One of the most promising ELECTRONIC and ELECTRIC testing laboratories in Shenzhen providing Safety, EMC, RF, reliability and chemical testing – an innovation and technology hub in China - operating under CMA and ISO 17025 accreditations from CNAS and A2LA.	Founded in 1964 in Mumbai, Geochem became one of the largest and most dynamic independent testing & inspection organizations. It was acquired by Cotecna in December 2022. Geochem provides a full spectrum of services across multiple industries.	Activation Geological Services (AGS) is a testing laboratory that provides analysis and sampling services with innovative technologies and qualified personnel, covering the mining and environmental sector; and at the same time, committing to the health and safety of its workers, the environment & nature.	ESTS is a global certification body and audit firm. ESTS is committed to enhancing ESG competitiveness for brands and retailers' supply chains, as well as creating a transparent and reliable supply chain.	A softline laboratory, strategically nestled in Hangzhou, an e-commerce hub, offers testing solutions for a multitude of online brands in accordance with local and international standards.	Italy's leading control and certification body for the organic products, with over 23,500 certified operators and 700,000 hectares of Italian organic land. Suolo e Salute is a pioneer in the organic sector in Europe, since 1969. It offers a wide range of services, from organic certifications (EU, NOP, JAS etc.) to PDO, PGI, and TSG, Global Gap, Biocosmetics, and more.	A Malaysia-based analytical testing laboratory specializing in vegetable oil, agri-food, and biofuels.	

COTECNA

YOUR PARTNER IN AGRICULTURE

The agricultural industry is built upon the principles of integrity, safety and sustainability. The close monitoring of each principle is paramount to business compliance. Our solution for businesses lies in our ability to react swiftly across the entire supply chain. From primary production to final consumer, our highly experienced inspection and testing teams, backed by a global network of laboratories and internationally recognized accreditations and certifications, are set up to respond rapidly to your request.

We pursue excellence, and our dedication is shown in everything we do. Our timely actions help our clients minimize business disruptions. We are available 24/7, providing our clients with strong and reliable support, helping them protect their business interests and contributing to their success.



1 Capitalising on our worldwide network of specialists and laboratories, we offer our clients a complete set of quantitative and qualitative agricultural services tailored to their needs, including certification training technical assistance. Each service is designed to reduce a business' exposure to risk and ensure contractual conformity and greater transparency.

2 We pursue excellence, and our dedication is shown in everything we do, with our timed actions helping to prevent an issue before it happens. Our 24/7 strong and reliable protection of our clients' interests contributes to the success of the business.

3 Cotecna is committed to operating sustainably, ensuring that we benefit our clients while bringing a positive impact on plants and society. Sustainability is at the heart of our value proposition, in all aspects of our testing, inspection and certification activities, providing trust to our clients and stakeholders. This commitment is embedded in the implementation of our Sustainability Framework, which we operate throughout our organisation. The Framework sets out our policies and governance for sustainability, focused on **6 key pillars**:



ETHICS & GOVERNANCE

Our commitment to integrity and ethical business practices, as set out in our Business Ethics & Compliance Code.



ENVIRONMENTAL IMPACT

Our commitment to have a positive impact on the planet, by minimising our carbon footprint, managing waste and emissions, & conserving energy and water.



HEALTH & SAFETY

Our commitment to provide safe workplaces for our people and those who may be affected by our activities.



SUPPLIERS

Our commitment to require our suppliers and subcontractors to meet and adopt our Sustainability goals.



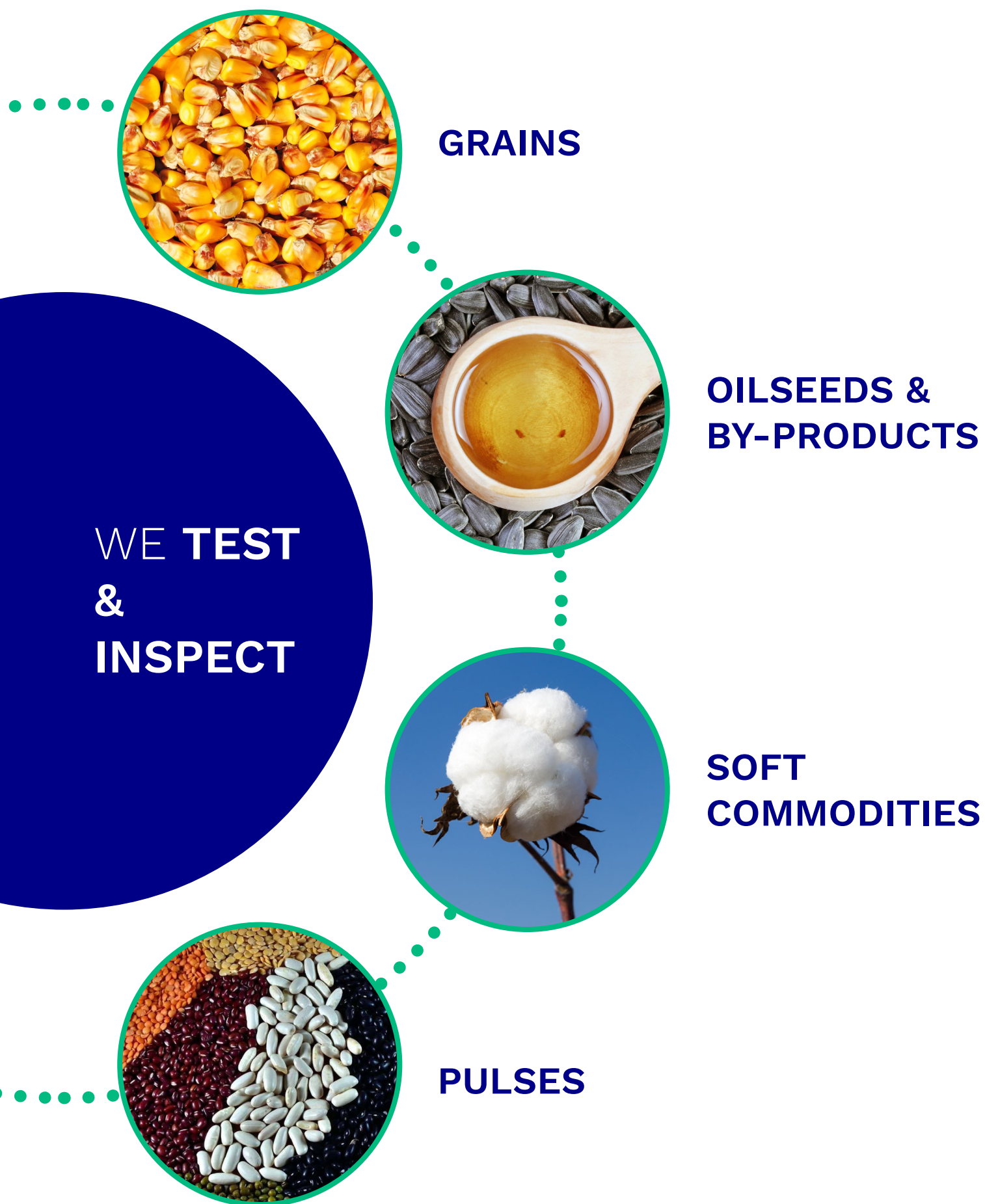
FAIR LABOUR

Our commitment to empower and develop talent, promote diversity and inclusion, and implement fair labour practices.



COMMUNITIES

Our commitment to engage with and support our local communities in the areas of health, education, and inclusion.



THE SERVICES WE OFFER

We offer our clients seamless access to a high-calibre and comprehensive suite of customised agricultural services. We cover monitoring, weighing and sampling, as well as testing, verification and certification of agricultural commodities and processes at every stage of production.

We offer our services across a wide range of industries, with clients that include:

- > Logistic companies
- > Financial institutions
- > Governmental organisations
- > Insurers
- > Agro-science companies
- > Fertiliser companies
- > Farmers
- > Food & Feed processors
- > Traders



THE SERVICES WE OFFER

INSPECTION SERVICES

At Cotecna, we understand that trust and precision are the cornerstones of agricultural trade. Our inspection services are designed to provide clients with the confidence they need to operate efficiently, meet contractual obligations, and uphold the highest standards of quality and transparency.

With a global presence and deep industry expertise, our inspection teams deliver fast, reliable, and independent assessments across the entire agricultural supply chain. From origin to destination, we monitor, weigh, sample, and verify agricultural commodities to ensure compliance with international standards and client specifications.

Whether it's bulk grains, oilseeds, coffee, sugar, or other key commodities, our inspectors are trained to detect discrepancies early, helping businesses mitigate risk and maintain integrity in every transaction. Supported by our accredited laboratories and digital reporting tools, we offer seamless access to actionable insights that drive smarter decisions.

Our agricultural inspection services include:

- > **Cargo and Load Compartment Inspections**
End-to-end monitoring of shipments to verify quantity and condition.
- > **Draft Surveys**
Accurate weight determination for bulk cargoes.
- > **Fumigation Service**
Ensuring pest control measures are properly executed.
- > **Stockpile Monitoring**
Precise measurement & tracking of stored goods.

Beyond inspection and testing, Cotecna delivers a broad portfolio of support services including fumigation, risk mitigation, auditing, and certification. Each powered by real-time market insights. These solutions are designed to safeguard the integrity of your goods and ensure they arrive at their destination in peak condition and without delay. As proud members of GAFTA and FOSFA, our global specialists apply the most current industry standards and methodologies. This ensures your operations remain fully compliant, agile, and well-positioned in today's competitive agricultural landscape.

TESTING SERVICES

Cotecna's network of laboratories and partner laboratories are strategically positioned in proximity to the world's major trading centres to maximise our reach and provide a truly global service to our clients.

We have our own dedicated Agriculture Laboratories located in **Argentina, Brazil, Ukraine and Romania amongst other countries.**

Our testing services and accredited laboratories help our clients ensure that their products meet all necessary quality, safety, and sustainability standards. Through the usage of the very latest equipment and methods, we are able to perform different types of tests such as:

- > **Physical**
- > **Chemical**
- > **Food and feed safety**
(mycotoxins, pesticides residues, dioxins/pcb, microbiology)
- > **GMO**
- > **Wheat flour specifications**

ADDITIONAL SERVICES

- > **Crop and Harvest monitoring**
- > **Traceability programs**
- > **Quality maps**



Head Quarters | Buenos Aires
Laboratory | San Lorenzo



Agricultural Inspection & Testing

Our inspection and testing services for agricultural commodities help clients mitigate risk, comply with contractual obligations, and make their businesses more transparent and sustainable.

Tested Products & Type of Analysis

- > **Feedmeals** (Chemical analysis, mycotoxin contaminant)
- > **Oilseeds & by-Products** (Chemical analysis, physical analysis, mycotoxin contaminant)
- > **Cereals** (Chemicals analysis, physical analysis, wheat flour properties, mycotoxin contaminant)
- > **Vegetable Oil and Fat** (Chemical analysis)
- > **Fertilizers** (Acidity, nitrogen and sulfates)
- > **Pesticides and Heavy Metals**

Laboratory San Lorenzo
PESTICIDES & HEAVY METALS LAB

- > ISO/IEC 17025 accredited by OAA
- > GAFTA Approved Analyst
- > FOSFA Analyst Member
- > SISCOLE
- > GMP+

Pesticides & Heavy Metals Lab
SAN LORENZO

Cotecna Argentina has recently incorporated new state-of-the-art technologies in its pesticides and heavy metals analysis laboratory located in San Lorenzo, Santa Fe, Argentina.

Our innovative equipment has allowed us to broaden our scope of analysis, managing to determine heavy metals and a list of over 400 pesticides.

In addition, other laboratory equipment has been incorporated at the request of our clients, among which are Brookfield Viscometer, Brookfield Refractometer, HACH Spectrophotometer DR 6000 and Shimadzu Liquid Chromatograph (HPLC) and fluorescence detector.

The Laboratory has been operating under ISO 17025 Accreditation since 2008, is a proud Member of AOCS (American Oil Chemists’ Society), and it is authorized in Argentina by the Brazilian Authorities of the Ministry of Agriculture (MAPA) - SISCOLE System, to determine Bakery Quality with high-tech equipment.



11 branches operated & monitored 24/7/365
+9 operational laboratories

(Porto Alegre/Paranaguá/Santos/São Sebastião Rondonópolis/São Luís/Barcarena) to support our operations

Our Brazil network of laboratories provide inspection and testing services performing different types of analysis: physical, chemical, contaminants, aflatoxins, minerals, and fertilizers for a wide range of products such as: grains, food, feed, fertilizers, minerals, and mycotoxins in grains & foods.

Type of Analysis

Analysis in grains, food, feed, fertilizers, minerals and mycotoxins in grains & foods

Testing Services

- > Physical
- > Chemical
- > Contaminants
- > GMO
- > Microbiology
- > Mycotoxins
- > Minerals & Fertilizers

Laboratory Analysis
MAIN PRODUCTS

- > Sugar
- > Soybean meal
- > Soybeans
- > Corn
- > Oils
- > Fertilizers
- > Wheat
- > Cottonseed





COTECNA
CHILE

Arica
Chile

COTECNA
URUGUAY

Nueva Palmira
Uruguay

COTECNA
INDIA

Mumbai
India

Agricultural Inspection & Testing

- > Physical analysis of products and operational risk control
- > Supervision of truck reception
- > Loading and discharge
- > Pre-shipment supervision
- > Hold inspection
- > Supervision of shipment of bulk and container cargo
- > Sampling and parameter analysis with NIR testing
- > Verification of warehouses and storage conditions
- > Traceability control
- > Outsourcing services (operational control in plant)
- > Stock monitoring
- > Weight supervision

Tested Products & Type of Analysis

- > **Feedmeals** (Chemical analysis, mycotoxin contaminant)
- > **Oilseeds & by-Products** (Chemical analysis, physical analysis, mycotoxin contaminant)
- > **Cereals** (Chemicals analysis, physical analysis, wheat flour properties, mycotoxin contaminant)
- > **Vegetable Oil and Fat** (Chemical analysis)
- > **Fertilizers** (Acidity, nitrogen and sulfates)
- > **Pesticides and Heavy Metals**

COTECNA
BOLIVIA

Santa Cruz
Bolivia

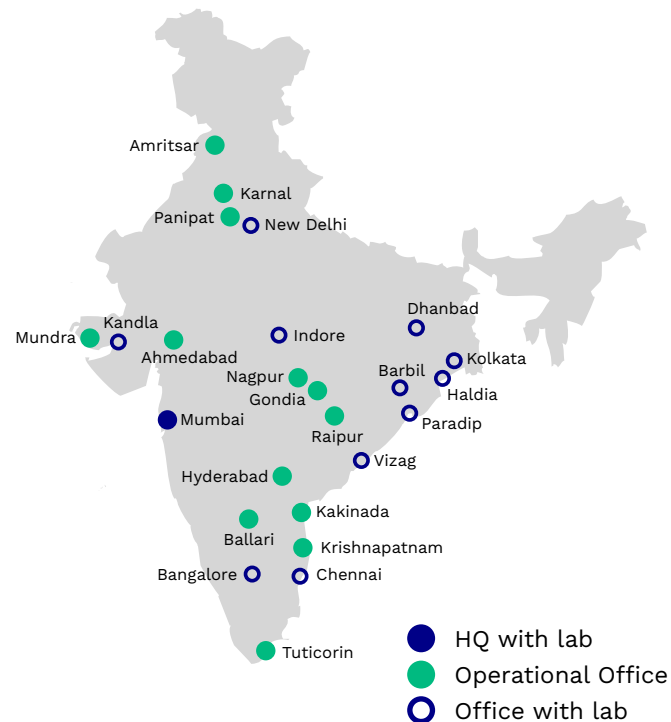
Services Provided

- > Weighing, tallying,
- > Measuring Sampling
- > Inspections and sealing of holds, tanks, containers, wagons, trucks
- > Draft surveys
- > Shipments certification

We are present in...

Mumbai, New Delhi, Kolkata, Chennai, Indore, Kandla, Vizag, Orissa, Karnataka

Amritsar, Andal, Durgapur ,Bongaigaon, Ballari, Prayagraj, Paradeep, Jharsuguda, Singareni, Krishnapatnam, Karaikal, Dadri, Dhanbad, Singrauli, Nagpur, Gondia, Jhajjar Bilaspur, Ranchi, Ramagundam, Mundra, Tanda, Kota, Tuticorin, Gharaunda....many more



Services

- > Pre-shipment Inspection
- > Vessel Loading and Container Stuffing Supervision
- > Vessel discharge/Unloading Supervision
- > Hatch & Tank Inspection
- > Stock Audit
- > Sampling & Analysis at Procurement Centers
- > Rake (railway wagons) Loading and Unloading Supervision
- > Plant Operation Supervision
- > Crop Survey
- > Laboratory Testing Services
- > Quality Audit/Second Party Audit
- > Packing Supervision

Expertise

- > Agro-Science
- > Farming
- > Traders
- > Transporters
- > Financial Institutions
- > Insurers
- > Government Organisations



Support for every step in your supply chain

- > Seeds
- > Fertilizers
- > Pesticides
- > Agro chemicals
- > Biotechnology
- > Etc.

- > Precision Ag. (Soil Sampling, testing, fertility map & consulting)
- > Crop & Harvest monitoring
- > Crop Data (market intelligence)
- > Certification (sustainability program)

- > Grading on site
- > Traceability programs
- > Stock Monitoring
- > Warehouse quantitative & qualitative stock taking
- > Distributor/ Retail audit

- > Plant intake, processing & outtake monitoring
- > Lab testing
- > Plant's GMP & Hygiene audit

- > Weighing
- > Tallying
- > Sampling
- > Testing
- > Cargo condition
- > Loading & discharge supervision (Q&Q)
- > Packing supervision
- > Hatch & hold inspection
- > Fumigation
- > Damage survey

In-house Testing Services

Cotecna Laboratories

- > GMO
- > Microbiological Contaminants
- > DNA authentication (in Basmati Rice)
- > ICUMSA Colour, Reducing Sugar, Ash, Pol. (in Sugar)

Shiva Analyticals

- > Nutritional Analysis
- > Pesticide Residue
- > Aflatoxins, Ochratoxins
- > Heavy Metals
- > Antibiotics
- > Allergens
- > Preservatives, Emulsifiers, Artificial Sweeteners, Banned Dyes, etc.
- > Proximate Analysis in Grains, Oilseeds & Spices

Products

- > **Grains**
Rice, Wheat, Corn, Barley
 - > **Oilseeds**
Soybean, Mustard, Sunflower Seeds, Sesame
 - > **Pulses**
Chickpeas, Lentil, Peas
 - > **Feed**
Soybean Meal, Rapeseed Meal, Groundnut meal
 - > **Vegetable Oil**
Crude Palm Oil, Sunflower Oil, Coconut Oils, DORB
 - > **Natural Fibre**
Cotton & Jute
- > **Other Products**
Sugar, Tea, Coffee, Cashew, Frozen Meat
 - > **Other Liquid**
Ethanol, Ethyl Acetate, ENA
 - > **Agro Chemical**
Growth Regulator, Pesticides, Insecticides
 - > **Vegetables**
Frozen Green Peas, Onion
 - > **Spices**
Cumin, Fenugreek, Coriander, Cloves, Chilli

Accreditations & Memberships

Cotecna Laboratories

Entity	Accreditation	Accreditation By
Indore Laboratory, Gandhidham Laboratory, Delhi Laboratory, Vizag Laboratory, Haldia Laboratory, Barbil Laboratory, Chennai Laboratory	ISO 17025	NABL
Chennai Laboratory, Delhi Laboratory, Haldia Laboratory, Indore Laboratory, Gandhidham Laboratory, Paradeep Laboratory, Vizag Laboratory	ISO 17025	QAI (Quality And Accreditation Institute Centre for International Accreditation)
Cotecna Inspection India Pvt Ltd	ISO 17020	ANAB (ANSI National Accreditation Board)
Cotecna Inspection India Pvt Ltd (Mumbai, Kolkata, Delhi)	ISO 17020	NABCB
Cotecna Inspection India Pvt Ltd	GAFTA Superintendents	GAFTA
Cotecna Inspection India Pvt Ltd (Indore and Gandhidham Laboratory)	GAFTA Analyst	GAFTA
Cotecna Inspection India Pvt Ltd	FOSFA Membership Certificate	FOSFA

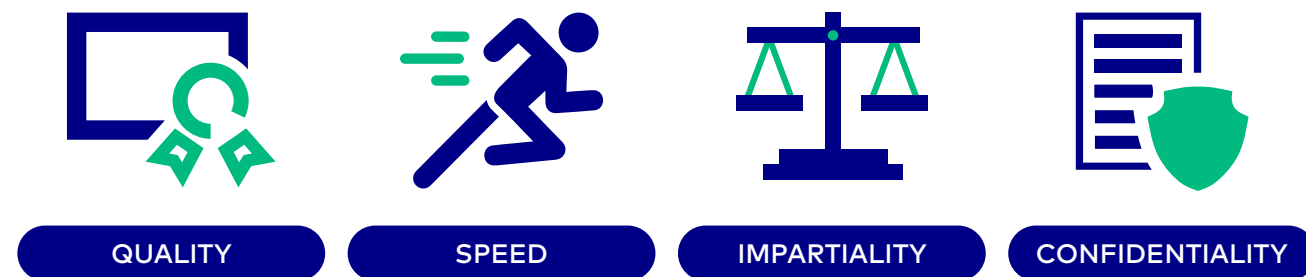
Shiva Analyticals

Accreditation	Accreditation By
ISO/IEC:17025 (2017)	NABL (National Accreditation Board for Testing and Calibration Laboratories)
FSSAI (Food Safety & Standards Authority of India)	NABL (National Accreditation Board for Testing and Calibration Laboratories)
IOPEPC (Indian Oilseeds and Produce Export Promotion Council)	NABL (National Accreditation Board for Testing and Calibration Laboratories)
ISO 45001:2018	LRQA (Lloyd's Register Quality Assurance)
BIS (Bureau of Indian Standards) recognised lab	Accredited by BIS
SFDA (Saudi Food & Drug Authority) recognised lab	Accredited by SFDA
EIC (Export Inspection Council)	NABL (National Accreditation Board for Testing and Calibration Laboratories)
Tea Board	NABL (National Accreditation Board for Testing and Calibration Laboratories)
APEDA (The Agricultural and Processed Food Products Export Development Authority)	NABL (National Accreditation Board for Testing and Calibration Laboratories)

FITOSOIL is a private laboratory offering our clients the most advanced analytical technology applied to the agri-food, environmental, industrial and health sectors. Since 2021, it is a member of the Cotecna Group.

Fitosoil is located in Murcia, Spain, one of the most important countries in the world in the production and trade of agricultural commodities, as well as biofertilisers for organic production.

Fitosoil is based on four key pillars:



Fitosoil offers innovative solutions by always implementing the latest techniques, as well as adopting new methods and standardized tests to produce the best outcomes. We are a team of professionals and specialists with a very clear objective, to make available to our customers the latest technology to address the stringent legislative controls, as well as research and development of new analytical techniques for the detection and quantification of chemical and biological agents.

In addition, Fitosoil is a world reference laboratory in fertilizers analysis, both in terms of diversity of techniques developed and the large number of accredited methods used. Over the last 20 years, Fitosoil has successfully expanded its analytical range and scope of accreditation, in harmony with the requirements and concerns of its customers and legislation.

FITOSOIL SERVICES PORTFOLIO

Some of our analysis and testing capabilities include the following:

- > **Richness in raw materials and formulations**
- > **NPK, secondary nutrients and micronutrients**
- > **Free and total amino acids**
- > **Pesticides and complexes**
- > **Chelates and complexes**
- > **Humic and fulvic acids**
- > **Heavy metals, Salmonella and E. Coli**
- > **Algae and alginic acid**
- > **Solubility studies**



A CASE STUDY DEVELOPMENT OF A METHOD FOR FURFURAL IN FERTILIZERS

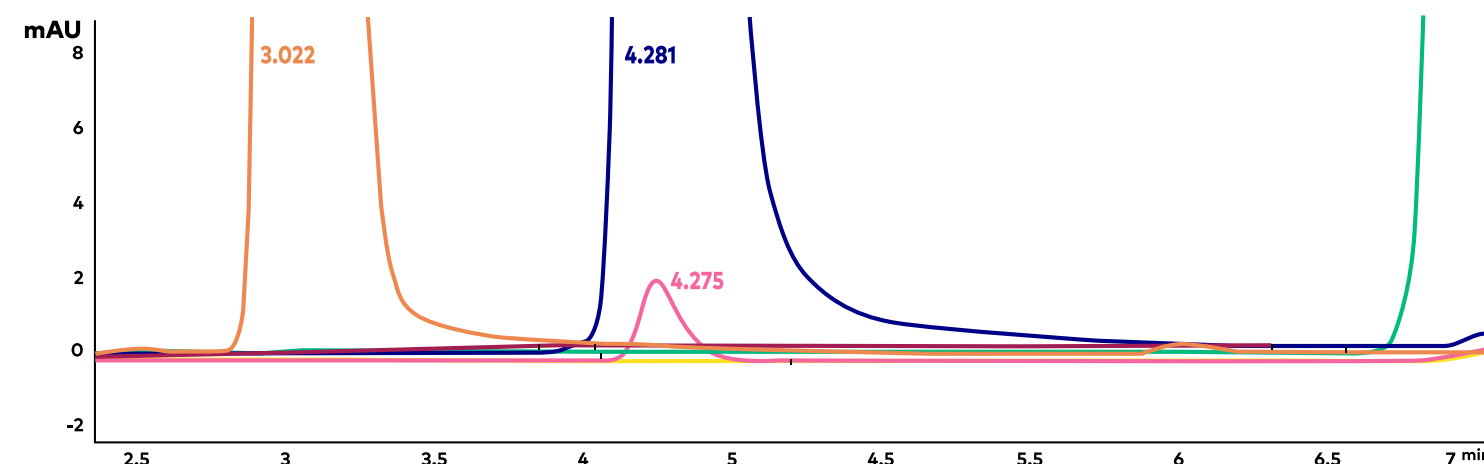
Furfural (2-furaldehyde) is an industrial aldehyde derived from various agricultural by-products, corn, oats, wheat, aleurone, sawdust. The name furfural is from the Latin word furfur, “bran”, in reference to its common source. It is an aromatic aldehyde, with a ring structure. It is also known as: Furfural, Furan-2-Carbaldehyde, Furan-2-Carboxaldehyde, Fural, Furfuraldehyde, Pyromucic Aldehyde. Its chemical formula is $C_5H_4O_2$. In its pure state, it is a colorless oily liquid with an almond-like odor; on contact with air, it rapidly turns yellow.

Furfural is legislated in Spain through **Royal Decree 506/2013**, of June 28, on **fertilizer products**, where fertilizer products containing as raw material lignosulfonates, sludge from the paper industry or sugar processing, shall be credited that it does not exceed 0.05 % w/w as maximum limit of furfural (2-furaldehyde) content. There is no standardized method to determine furfural in fertilizers and the legislation recommends the OENO 18/2003 method of the International Oenological Codex.



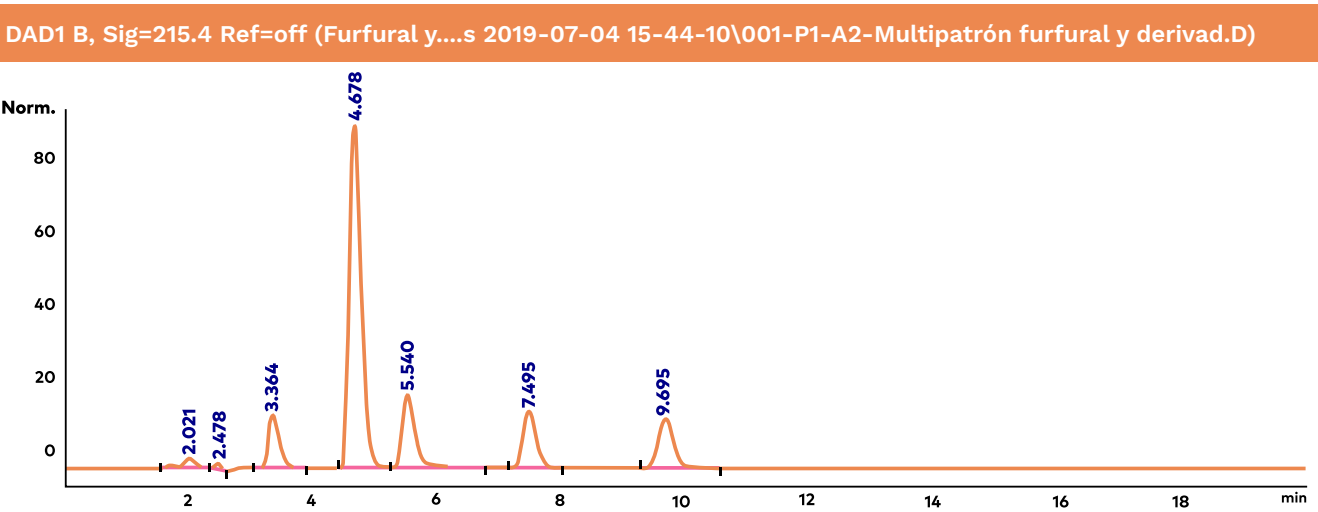
Fitosoil decided to develop an internal methodology to have an accreditation that will certify the technical competence of the laboratory for the control of this toxicant in **fertilizers**, based on a standardized method for insulating oils by **HPLC-UV: UNE-EN 61198:1996**. Insulating mineral oils. Methods for the determination of 2-furfural and related compounds. The development of the method involved ensuring that the most common furanic derivatives that accompany furfural do not interfere in the chromatographic determination. The compounds studied were: 5 -hydroxymethyl-2-furfural (5HMF), 2-furfuryl alcohol (2FOL), Furfural (2-furaldehyde) (2FAL), 2-acetylfuran (2ACF), 5-methyl-2-furfural (5MEF).

All compounds were determined at 280nm except 2-furfuryl alcohol (2FOL) at 215nm and after the first tests of application of the **UNE-EN 61198:1996** standard it was determined that for the column type of the standard the compound 2-furfuryl alcohol (2FOL) co-eluted with furfural. This showed that the chromatographic determination of furfural presented an interference by 2-furfuryl alcohol (2FOL) that absorbed at a different length, but in the presence of high concentrations of this could present interferences by the presence of false positives and even quantification errors.



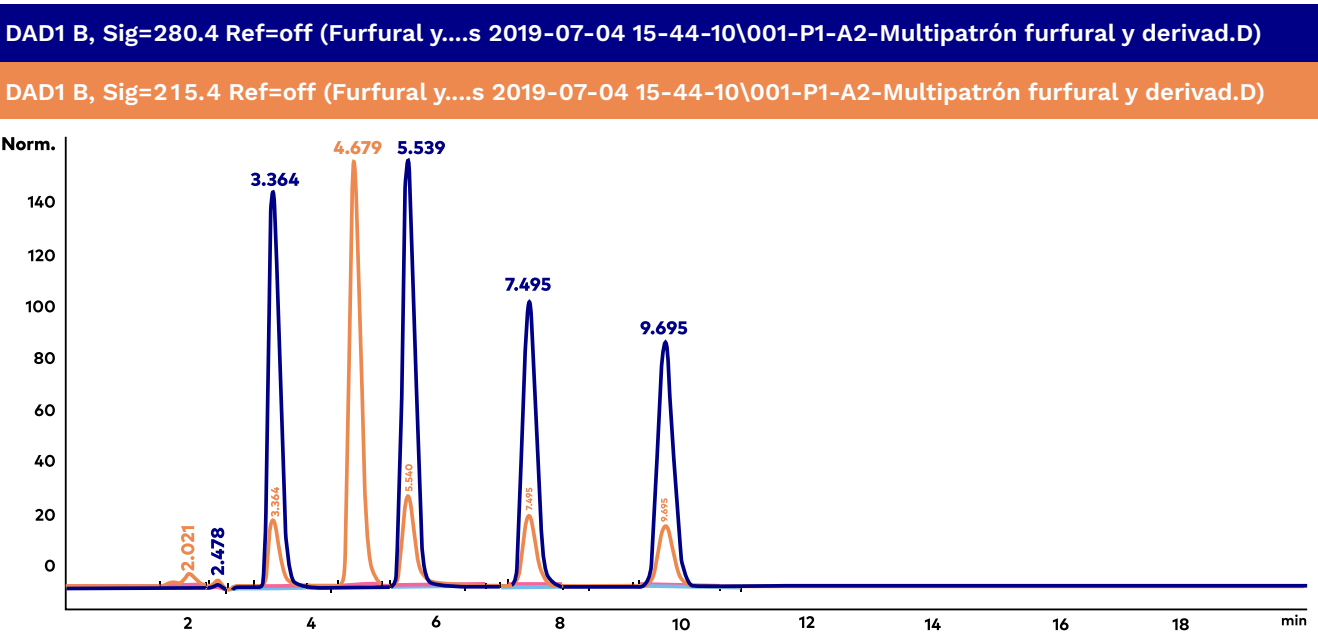
Fitosoil developed a study to obtain a phase profile to solve the chromatographic interference by playing with different proportions of aqueous phase, acetonitrile, and methanol, finally reaching the resolution of the chromatographic interference between 2-furfuryl alcohol and furfural. This allowed demonstrating the technical competence of the method and finally obtaining recognition as an accredited laboratory in the determination of this toxicant in fertilizers.

Chromatogram a 215 nm



Component	Retention time (min)	Wavelength (nm)
5-hydroxymethyl-2-furfural (5HMF)	3.5	280
2-furfuryl alcohol (2FOL)	4.8	215
Furfural (2-furaldehyde) (2FAL)	5.6	280
2-acetylfuran (2ACF)	7.5	280
5-methyl-2-furfural (5MEF)	9.6	280

Overlapping chromatogram 215 y 280 nm



65
FTE

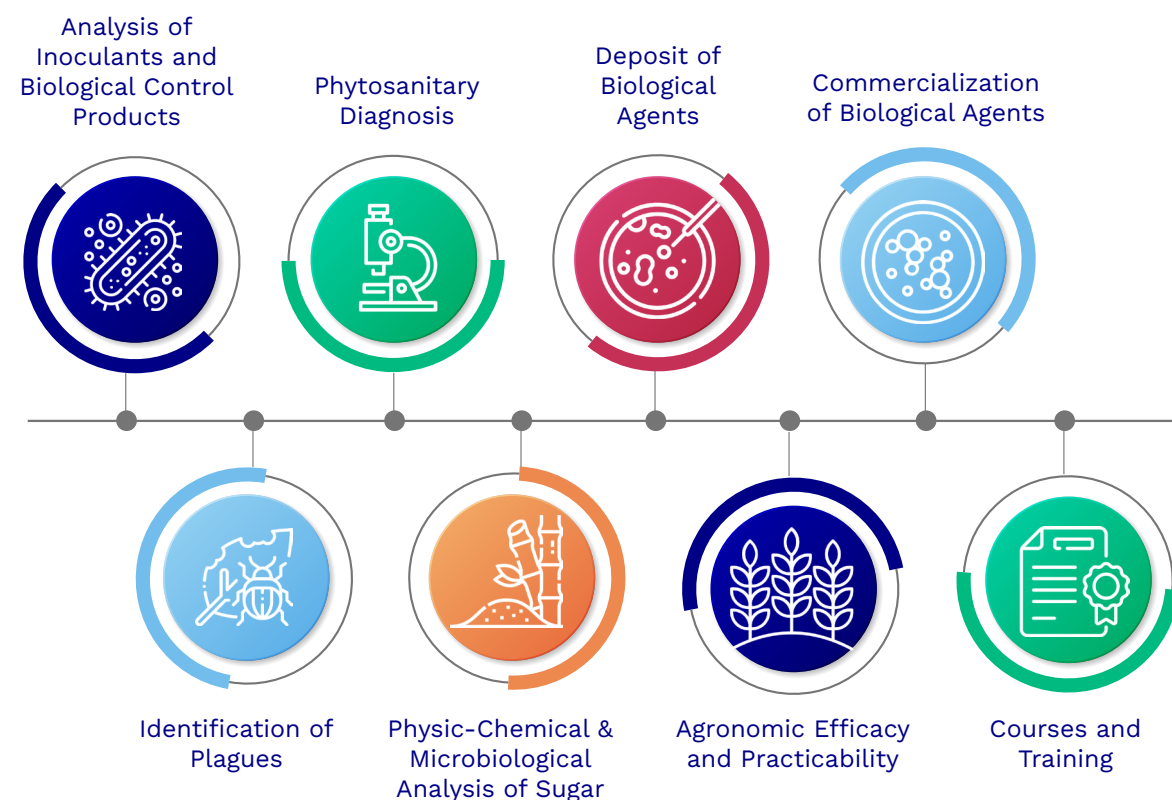
20
years of
experience

LOCATION
Santos, São Paulo

Agronômica is a private laboratory founded in Porto Alegre, Brazil, in 2006. Part of the Cotecna Group since 2022 and operating throughout Brazil and abroad, Agronômica is specialised in phytosanitary diagnosis analysis, analysis of biological control products for agronomic use, and seeds testing.

With more than **20 years of experience** in the market and **65 full-time employees, 1 headquarter** and **2 branch units**. Agronômica is accredited by MAPA (Ministry of Agriculture) in the area of Phytosanitary Diagnosis. Agronômica detects and identifies pests within the national and international transit of agricultural products through innovative techniques, and carries out effectiveness tests of chemical and biological products, under controlled conditions and in situ.

Agronômica has a comprehensive and solid service portfolio that delivers sustainable solutions for plant health and the entire ecosystem.



CASE STUDY

Who are the main soybean villains?

Agronômica tells you.

Brazil leads the ranking of the world's largest soybean producers. There were 156 million tons of grain in the 2024/2025 harvest. Brazil's soybean production for this season is estimated at **171.5 million tons**, and recent projections indicate that soybean exports in **2026 are expected to reach approximately 112.1 million tons**.

Despite leading soybean production, the country's tropical location means that the presence of various diseases, especially fungal ones, are common. Agronômica, a member of the Cotecna Group, is a leading Brazilian laboratory located in Porto Alegre, State of Rio Grande do Sul, Brazil, specialized in phytosanitary diagnosis.

In more than 1,000 soybean samples (plants or seeds) from different locations in Brazil analysed in Agronômica between 2020 and March of 2023, the ***Diaporthe sp.*** genus was the most frequent, detected on average in **31%** of the analyses. This genus is responsible for the diseases called Stem Canker, Stem and Pod Blight, and Seed decay.

The second most common genus of phytopathogenic fungi was ***Fusarium sp.***, present in **30%** of the samples analysed. This genus results in symptoms of Seedling Rot and/or Root Rot. ***Colletotrichum sp.***, which causes Anthracnose, was observed in **19%** of the samples, followed by ***Macrophomina sp.*** (Charcoal Rot) **12%**, ***Corynespora sp.*** (Target Spot) **4%** and ***Cercospora sp.*** **4%** (Cercospora Blight).

Identifying which pathogens are most common in soybean crops helps in the adoption of effective management measures to help maintain Brazil as a leader in soybean production.

In addition to ensuring more efficient management, early and assertive diagnosis can contribute to the principles of **sustainability**, as it can promote the reduction of the application of chemical products, having less impact on the environment in terms of waste, diversity, and to man.

Agronômica is part of this process, helping producers to diagnose the main problems of crops, making disease management more assertive in the field and the production more sustainable.

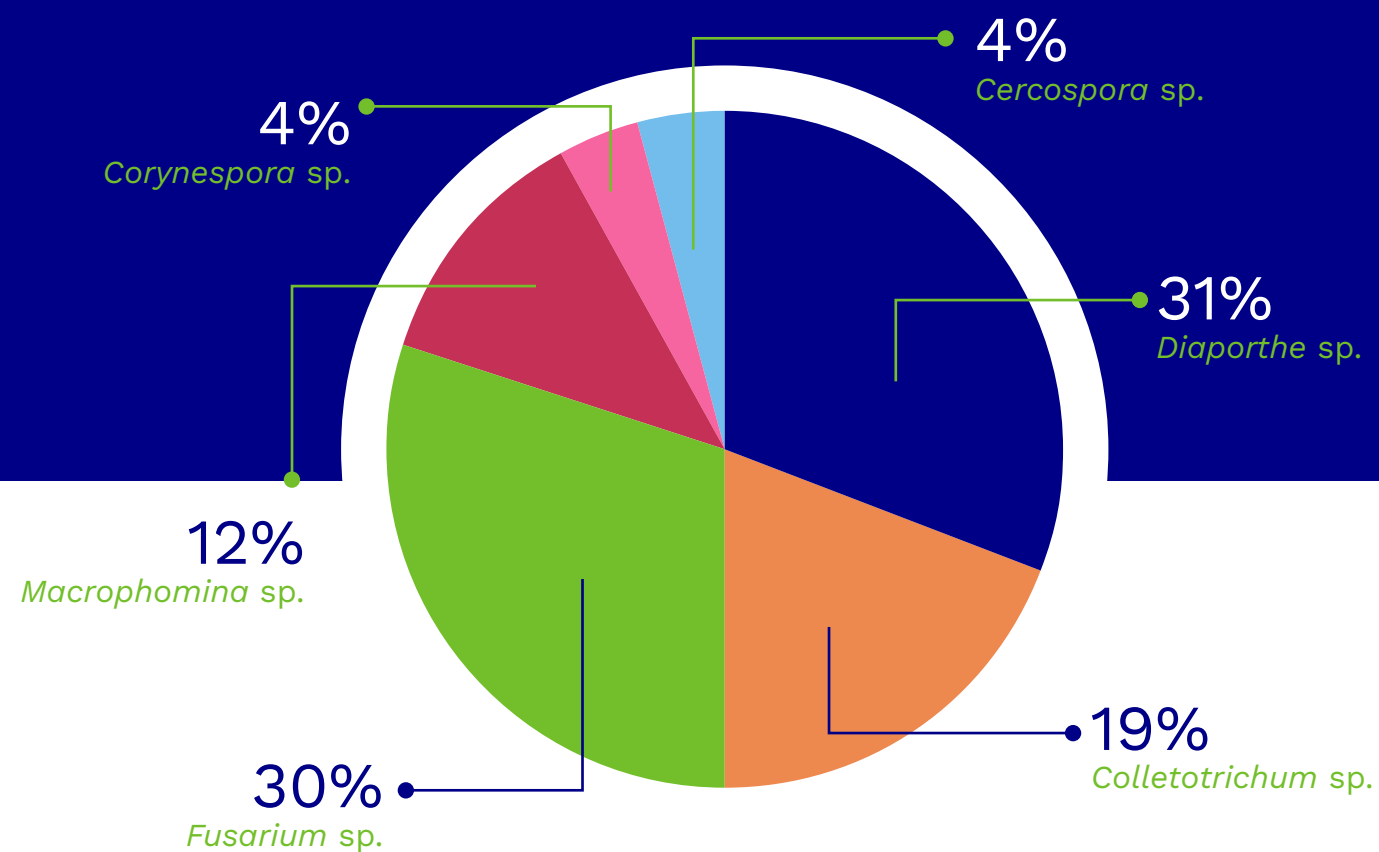


Figure 1. Most frequent phytopathogenic fungi genera in soybean samples received at Agronômica's Lab between 2020 and 2023. n=1055.



Founded in 2004, **Cotecna Netherlands** is a sampling and testing laboratory specialized in the field of food, feed and environmental safety.

We offer an extensive range of analytical methods for food and feed with one of the fastest turnaround times in the world (8 to 24h and weekend).

As a market leader, we analyse approximately **10,000 dioxin samples per year**, including PCBs.

Microbiological

From raw materials and ingredients to finished products, our analysis affords you the confidence of knowing with certainty the chemical, physical, and qualitative value of your commodity.

Chemical & Analytical

We evaluate the safety and quality of your goods through the entire production cycle.

Allergens

We help clients ensure food safety and avoid issues caused by undeclared allergens on a food label by providing cost-effective solutions to test for the presence of allergens.

This includes a wide range of products: Peanut, Nuts, Milk, Egg, Wheat, Soy, Seafood.

TESTING SERVICES

OUR PEOPLE & NETWORK



Highly experienced chemists



Broad portfolio of customers from around the world

OUR LABORATORY

- > Wide portfolio of reliable analytical methods
- > Excellent turnaround time
- > Complete spectrum of research techniques in-house and in one location
- > High sample throughput
- > Renowned reputation
- > Ideally located at Schiedam in the port of Rotterdam to serve our customers at the principal gateway to Europe

OUR INNOVATIVE METHODS

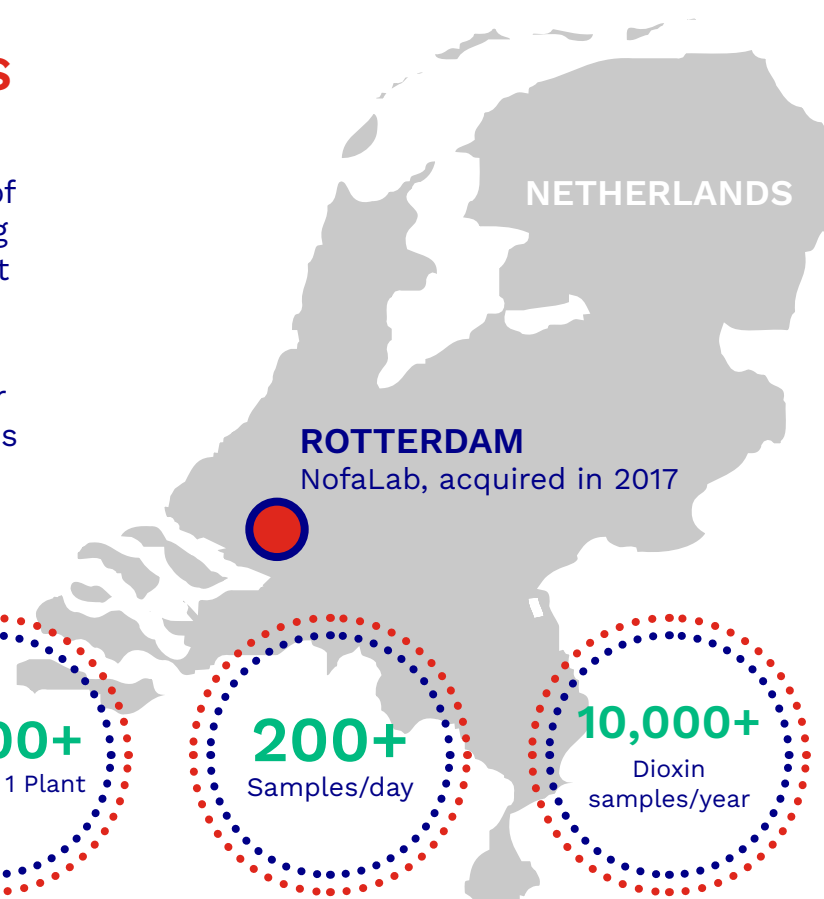
- > **Complete traceability of the analytical data** : digital photos of the samples, barcode scanning system to track the samples at each following step
- > **e-LIMS** : online user friendly portal to place orders, get your results, keep historical samples data, etc.

60+
Employees

2,500+
M² Lab / 1 Plant

200+
Samples/day

10,000+
Dioxin samples/year



Founded in 1975, **Neotron** is a global player in testing analysis on food products, supplements, materials in contact with food (FCM), cosmetics and pharmaceutical products.

Neotron provides a high-level technical support and boasts a strong experience in the field of chemical, biochemical, microbiological and sensory tests.

Neotron has been a reference chemical laboratory for the most important European and global multinational food players for many years: from production and distribution companies to trade associations and public & private institutions.

ANALYTICAL PORTFOLIO | FOOD

PESTICIDES	MYCOTOXINS	VETERINARY DRUGS	HEAVY METALS & ELEMENTS
Insecticides, Acaricides, Fungicides, Herbicides, Growth Regulators and Harvest Aids, Rodenticides, etc.	Aflatoxins, Fumonisin, Alternaria Toxins, Trichothecenes, Zearalenones, etc.	Antibiotics, Anabolizing agents, Beta agonists	Contaminants
POPS	OTHER CONTAMINANTS	MACRONUTRIENTS	MICRONUTRIENTS
Dioxins, Dioxins like PCBs, PBDEs, etc.	PAHs, Solvents, Process Contaminants, Alkaloids, MOSH&MOAH, etc.	Sugars, Amino acids, Fats, Fiber, Nutritional Label, etc.	Vitamins, Phytochemicals, Minerals, Nutraceuticals, Organic acids, etc.
ADDITIVES	MICROBIOLOGICAL TESTS	MICROSCOPY	PHYSICAL TESTING
Preservatives, Colourings, Flavours, Antioxidants	ISO methods, USDA methods, Ph. Eur. methods and genetic identification	Filth test, foreign body identification, microplastics	Radioactivity, Radiation Test (PSL)
FOOD CONTACT MATERIALS	GMOS	ALLERGENS	R&D
Overall & Specific Migration Tests, NIAS Screening (untargeted test), MOSH&MOAH, Determination of Purity Requirements	GMOS Qualitative & Quantitative Analysis	ELISA, PCR, Digital PCR, NGS and LC/MS assay for regulated allergens	R&D activity for new analytical tests and on-demand analytical method development for specific customer needs

OUR PEOPLE & NETWORK



Highly experienced chemists



You will count on a referee team with a solid technical background



Global coverage, supported by Cotecna worldwide presence

OUR LABORATORY

- > **10 000m² of state-of-the-art laboratories in one single site** guarantees the supplication of harmonized procedures, a strict control of operations and complete traceability throughout the entire analytical process.
- > **Quality assurance programme** covering all the analytical activities to guarantee reliable results (including inter-laboratories proficiency tests, such as GAFTA)

550+
Employees

10,000+
M² Lab / 1 Plant

1,000+
Samples/day

800+
Methods

>99%
P-tests target

70%
Test Contaminants



Suolo e Salute is a leading certification body specializing in Organic Production Certification, Animal Welfare (SQNBA), Global GAP (EurepGAP), Environmental Managements Systems, Online Certification Validation and more.

Wimpey Laboratories delivers specialised agricultural testing services that support the quality, safety, and trade of agricultural commodities. Combining deep regional expertise with Cotecna's global network, the laboratory provides accurate analysis of grains, oilseeds, and other agri-products, helping producers, traders, and buyers meet regulatory requirements, verify specifications, and maintain confidence across the supply chain.

ANALYTICAL PORTFOLIO



- > **Organic EU** (Italy)
- > **NOP** (National Organic Program of U.S by USDA)
- > **JAS** (Japanese Agricultural Standard)
- > **GLOBALG.A.P.**
- > **ISO 22005**
- > **UNI 11233:2009** (Italian standard)
- > **Reg. (EU) 1151/2012** (Agricultural products and foodstuffs)
- > **SQNPI** (Italian standard) - Integrated pest management
- > **Organic farming audits** - BioSuisse (Swiss) + KRAV (Swedish) + Demeter (Italian)

Internal standards for:

- > Biocosmetics
- > Vegan
- > Inputs that can be used in Organic Farming
- > Antibiotic free and GMO free

400+
employees

Lab Size
80,000
sqft

850+
Samples/day

5400+
Total Accredited
Parameters

2
Location

Agri Accreditations

- > EIAC & IAS

Agri Memberships

- > GAFTA & FOSFA

Validated Scope

- > Soil Testing
- > Irrigation Water Testing
- > GMO Testing
- > Nematode Testing
- > Environmental and Contaminant Testing (Soil & Water)
- > Pesticide Residue Testing
- > Crop Protection Residue Analysis
- > Fertilizers
- > Feed Testing & Quality Control
- > Express Lab Services: Grain Quality Testing (e.g., Falling Number, Mycotoxin ELISA)
- > Heavy Metals
- > Mycotoxins
- > Phytosanitary Diagnosis
- > Microbiological Contaminants
- > Molecular Biology Testing
- > DNA Authentication (e.g., Basmati Rice)
- > Halal Testing & Compliance



WHY CHOOSE COTECNA

We strive to be recognized as the most reliable and customer-focused provider of testing, inspection, and certification services in our markets. We measure ourselves by the value we add, and by our ability and willingness to go the extra mile in delivering solutions for our customers.

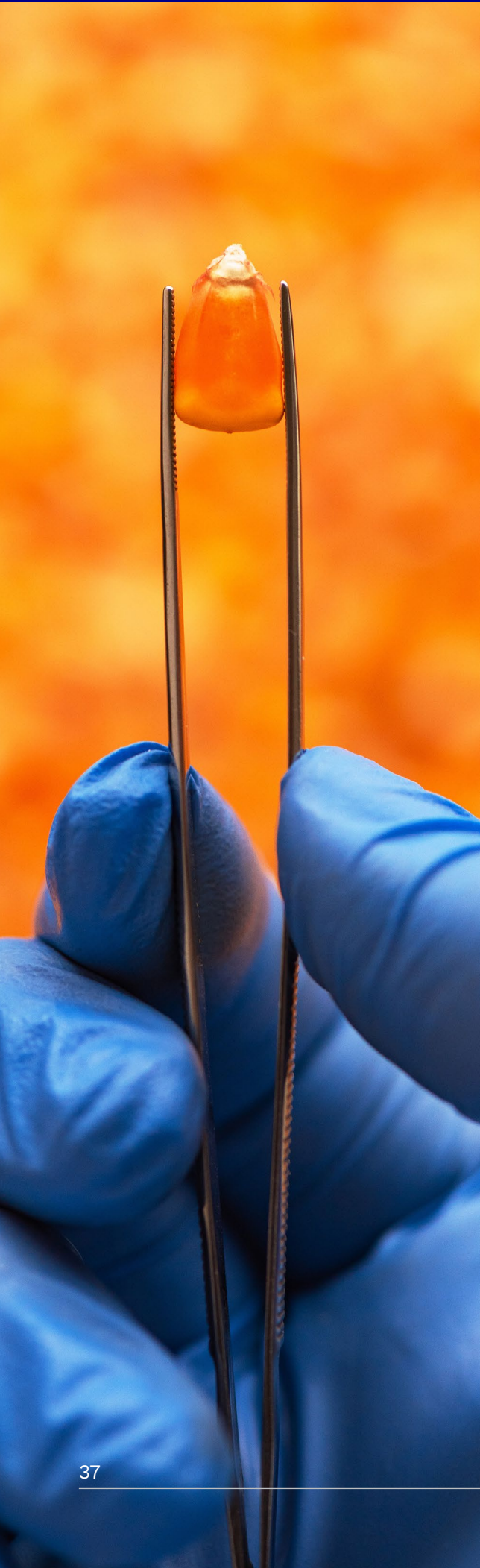
The proximity of our team, together with the personal nature of our service, and the fact that we are certified by the industry's recognized bodies, mean we can act quickly and proactively to any request.

We guide our clients through local market inspection procedures, acting as a partner in trade and not just a service provider.

We communicate regularly and with complete transparency, allowing a client to operate with full assurance over the verification of their shipment.

We know a fast turnaround time is critical for our clients. Not just once, but continually. Each of our laboratories are equipped with the latest technology and are staffed by expert analysts, allowing samples to be tested at speed but without sacrificing quality and accuracy.

Cotecna is a place where people find, create, and capture opportunities. This is how we develop our business.



CONTACT US

To learn more about our agricultural inspection services for businesses and how they can benefit your operations, please do not hesitate to contact us:

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