

VISION

NEOTRON VISION IS A WORLD WHERE: The development of technologies and scientific knowledge drives quality improvement of food, drugs and cosmetic products as well as their diffusion into new markets, with new meanings in term of safety, nutritional value, efficacy and disease prevention. Legislation will be a driver for food safety improvement. As a consequence, the demand for analytical services will increase, both for brand protection and for sense of responsibility and formal purposes. We see two different scenarios: a demand for crises management and specific projects, and a demand for routine controls.



THE ROLE NEOTRON INTENDS TO TAKE ON IS THE FOLLOWING: provide state-of-the-art and robust methods to take under control the supply chain for routine controls, with a strong focus on efficiency and response time. Managing crises, urgencies and specific issue through investment in research, method development, together with a flexible and reactive approach.



OUR VALUES

RELIABILITY

Data reliability is the main asset and it is pursed at any level with a focus on method validation and control.

CONFIDENTIALITY

Confidentiality is ensured at every organization level with utmost attention and controlled procedures.

TRANSPARENCY AND TRUTH

Transparency and truth are essential requirements: our mistakes are acknowledged and an opportunity for improvement.

INNOVATIVE DEVELOPMENT

Scientific and technology improvement is, together with the customer's needs, our "driver" of innovative development.

LONG-TERM VISION

Our choices are guided by a long-term vision and directed at global market.





FIELDS OF ACTIVITY



FOOD STUFF



BABY FOOD



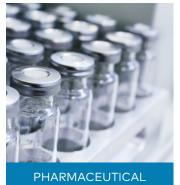
FOOD INGREDIENTS



FOOD SUPPLEMENTS







SENSORY & CONSUMER

TECHNICAL DEPARTMENTS

TYPE OF ACTIVITIES		
MICROANALYTICS	Pesticides, Mycotoxins, Dioxin, PCB, Furan, Heavy metal, Veterinary drug residues, Dyes, Food additives, process contaminants, phytochemicals, etc.	
MACROANALYTICS	Nutritional tests, Analysis of raw materials in accordance with the European Pharmacopoeia, American Pharmacopoeia and Food Chemical Codex, Physical and chemical-physical analysis.	
MICROBIOLOGY	Food & feed microbiology, Challenge Tests, Stability Tests, Shelf life and Tests on probiotics	
MOLECULAR BIOLOGY	GMOs, Allergens and Species Identification	
FOOD CONTACT MATERIALS	Migration tests, Traction tests, Sensory tests, Permeability tests	
PHARMA	Tests according to GMP standards	
COSMETICS	Allergens, Contaminants & impurities, Dyes, Preservatives & Antioxidants, Stability markers, etc	
Sen&CA	Sensory and Consumer Analysis	
R&D	Research and Development department	
REGULATORY AFFAIRS	Evaluation of analytical results, Labelling	
CUSTOMERCARE	Contact point for customers	

FOOD & FEED

THE SPECIALISTS OF ANALYSIS IN THE FOOD SECTOR

Our core business and the sector in which we have gathered over 40 years of technical know-how is the analysis for the food industry. The Food & Feed department of Neotron is composed of a set of subdepartments specialized in chemical, biochemical, microbiological and sensory analysis, equipped with the latest technologies in the sector and subjected to continuous internal and external quality controls.



MICROANALYTICS

A multiscreening approach.

Department equipped with cutting-edge technologies, such as 30 LC-MS/ MS and 20 GC-MS/MS; analysis unable to determine, for instance, pesticides residues, mycotoxins, food additives, vitamins, micropollutants (IPA, MCPD, solvents, ...), some types of allergens, nutritional parameters for the characterization of food (fatty acids, sterols, sugars, ...).

Checking for contaminant pesticides residues in different materials has been the first activity implemented since the beginning. Every method has been validated on the specific matrix, to respect the standard requested by the current regulation and by customers.

In the analytical field, our research is focused on developing high resolution methods according with a multiscreening approach, in order to co-determine a great variety of different molecules.

MACROANALYTICS

The composition of foods and nutritional values.

The Macroanalytics department deals with the compositional and nutritional characterisation of foods, food supplements and feeds in terms of macro elements and qualitative properties.

Nutritional tests involve the determination of proteins, carbohydrates, fibres and fats, ash, water content, while specific analyses are used to study the characteristics of wines, vinegars, fats and oils, dairy products, baked goods and processed foods in general.

Other determinations concern the analysis of raw materials in accordance with the European Pharmacopoeia, American Pharmacopoeia and Food Chemical Codex.

Physical and chemical-physical analyses are also carried out with dedicated instruments (gamma radioactivity, detection of irradiated foods, viscosity, density, etc.).



FCM Testing.

Dedicated department dealing with defining and performing compliance tests for materials intended to come into contact with food products. The samples analysed include all categories of materials which may come into contact with foodstuff: flexible and rigid plastic materials, paper, aluminium, metals, and alloys... Applied methods comply with international regulations, moreover it is possible to create customized protocols based on use and test specifications. The participation in an international technical network gives us the possibility to constantly stay updated about the most recent technical developments.



Molecular Biology.

The molecular biology techniques used in the department are ELISA, Real Time PCR, Digital PCR and DNA sequencing. The main application scope is the determination of GMOs, allergens and identification of meat, fish, plant and bacterial species. The analytical techniques applied, together with instrumental determinations performed by other departments, allow to complete the offer for the detection of allergenic foodstuff included in the list provided for by relevant regulation.



Microbiology

The new Microbiology Lab, opened at the beginning of 2013, was designed and built according to strict structural criteria, in order to avoid any accidental cross contamination of tested products. It consists in different areas, each of them dedicated to a specific analytical step and activity (e.g. Challenge test, pathogenic and non-pathogenic organisms). The analytical techniques applied by NEOTRON include a wide range of methods ranging from those internal to the official as ISO, AFNOR, USDA, Ph. Eur., GB, etc.

PHARMA



Authorized GMP laboratory for the pharmaceutical sector

Neotron Pharma is a specialized GMP division dedicated to the Analytical Service for the Pharmaceutical. We provide chemical and physical tests, as well as high-level technical support to many Pharma companies in the field of GMP analytical service.

Neotron Pharma offers a complete chemical analysis service for the safety and quality of the entire pharmaceutical sector: API, Drugs, Excipient, Raw Materials and Packaging according to GMP standards.

Thanks to the concentration of know-how and technology, Neotron Pharma guarantees the highest level of quality and reliability of the analytical data, as well as immediate assistance to the customer on any Alert of the Pharma sector, following the main International Standard:

- AIFA Italian Medicines Agency
- GMP approved
- FDA inspected
- Ministry of Health Veterinary drugs authorization
- Ministry of Health Drugs and psychotropic substances authorization
- Screening and validation on raw materials, apis and drugs:
 - Nitrosamines
 - Elemental Impuruties
 - Residual Solvents
 - Assay&Impurities
- Pharmacopeia Analysis
- Method Validation
- Stress Test Study
- Stability Studies
- Pesticides/Mycotoxins/Alkaloids





SEN&CA – Sensory & Consumer Analysis

Seneca is the department within Neotron that realize sensory analysis and market research. Offering consistent "feedback" about products performance, its characteristics or its quality. Our **services** are **tailor made** on the specific Client needs, thanks to our multidisciplinary team which is able to deeply understand R&D, Q&A and Marketing needs. We therefore provide concrete and practical insights about the product performance through the **Sensory analysis** and **Market research** with **consumers**.

SENSORY ANALYSIS

The senses drive the consumer choice of products. This is why it is important to know how the product's characteristics are translated in terms of sensory perceptions. Sensory analysis studies the information gathered by the senses in an objective and scientific way, through a panel of trained assessors.

Sensory analysis is useful in many instances, such as when choosing or replacing an ingredient, in studying the sensory changes of the product during its shelf life, for a comparison with the competition and in verifying the suitability of materials in contact with food.

CONSUMER SCIENCE

Knowing the consumer's point of view is essential for the success of products on the market. A quantitative assessment of consumers' opinions and motivations provides concrete data and statistics to drive the company's decisions as well as an in-depth analysis of consumers' beliefs and attitudes allows us to understand the reasons behind the choices and purchase of a product.

Sen&CA department provides an important support to companies for these activities for over 25 years with senior multiskilled researchers and a large panel of trained assessors in sensory analysis.

COSMETICS

ANALYTICAL, SAFETY, EFFICACY AND SENSORY TESTING

Neotron supports cosmetic companies throughout the product control and development process, offering highly specialized services for the assessment of safety and compliance with national and international standards of both cosmetic raw materials and finished products.

With customized protocols, Neotron evaluates the efficacy of cosmetic products and their coherence with the communicated claims, the quality perceived by the consumer and the sensory characteristics thanks to the expertise of our professionals. Our services:

- · Physical and chemical testing
- Microbiological testing
- · In vivo efficacy testing
- · In vivo safety testing

- Consumer Science
- Sensory analysis
- Stability and Period After Opening (PAO - Period After Opening)
- Content packaging compatibility studies



RESEARCH & DEVELOPMENT

LOOKING FOR THE PERFECT METHOD

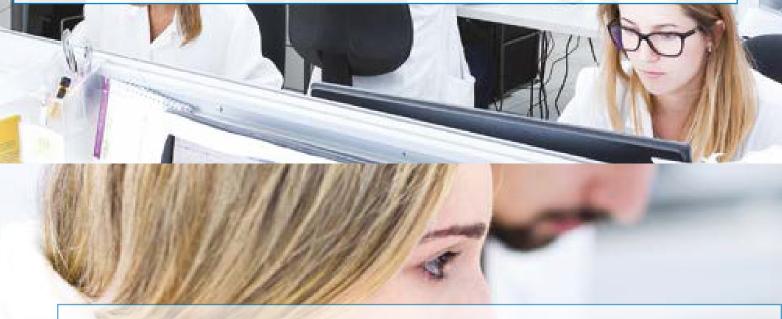
The analytical Research Department is committed to discover new applications for the new technologies together with the state-of-art methods. The team of about ten highly qualified senior researchers operates independently from the routine activity, time-line and promptly answer to the requests for the determination of new contaminants. One of the most relevant activities is to continuously upgrade methods applied during the normal routine activities to low limits of quantification and broaden the range of analysed matrices



LEGISLATIVE ADVICE SERVICE

The regulatory office provides continuous support to customers, sharing high level expertise and know-how relating to:

- Analytical data evaluation
- Legislative and technical updates
- RASFF Alerts
- · Food labelling, mainly addressed to Italian, US and Canadian market.

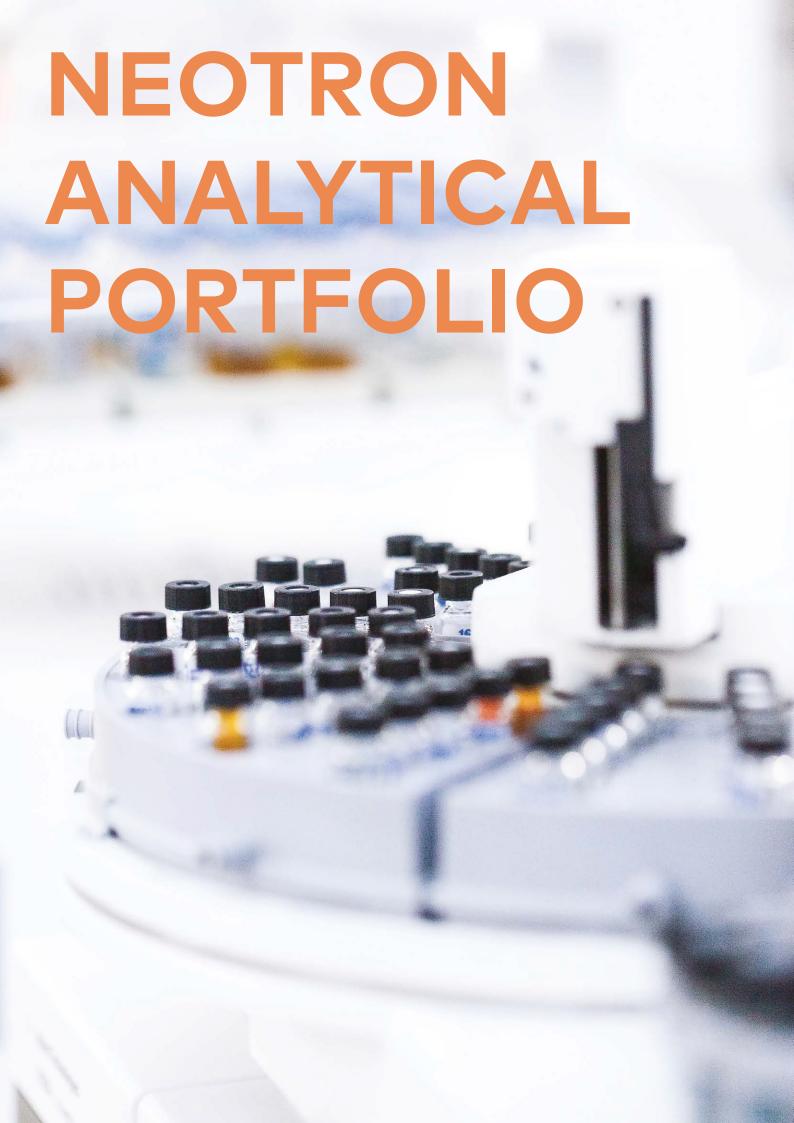


CUSTOMERCARE

YOUR POINT OF ACCESS TO THE NEOTRON LABORATORIES

Customer care is the contact point for customers. Each request from the clients is received and processed by involving the technical departments, in order to provide the customer with any necessary information, from price quotation to specific information on applied analytical protocols. Each client has his own technical referee talking his native language. The team is organized by geographical areas, in order to provide one stable contact for the clients located in different areas worldwide.





CONTAMINANTS

PESTICIDES

Insecticides, Acaricides, Fungicides, Herbicides, Growth Regulators and Harvest Aids, Rodenticides etc... (more than 1000 different actives)

MYCOTOXINS

Aflatoxins, Fumonisins, Alternaria Toxins, Trichothecenes, Zegralenones etc.

VETERINARY DRUGS

Antibiotics, Anabolizing agents, Beta agonists

HEAVY METALS AND ELEMENTS

Contaminants

POPS

Dioxins, Dioxins like PCBs, PBDEs, etc..

OTHER CONTAMINANTS

PAHs, Solvents, Process Contaminants, Alkaloids, MOSH&MOAH etc.

NUTRITIONALS

MACRONUTRIENTS

Sugars, Amino acids, Fats, Fiber, Nutritional label, etc.

MICRONUTRIENTS

Vitamins, Phytochemicals, Minerals, Nutraceuticals, Organic acids etc.

OTHERS

ADDITIVES

Preservatives Colourings Flavours Antioxidants

MICROBIOLOGICAL TESTS

"ISO" methods, "USDA" methods, European Pharmacopoeia methods (Ph. Eur.) and genetic identification

MICROSCOPY

Filth test, foreign body identification, microplastics

FOOD CONTACT MATERIALS

Overall and Specific Migration Tests NIAS Screening (untargeted test) MOSH&MOAH

Determination of Purity Requirements

PHYSICAL TESTING

Radioactivity, Radiation test (PSL)

GMOs

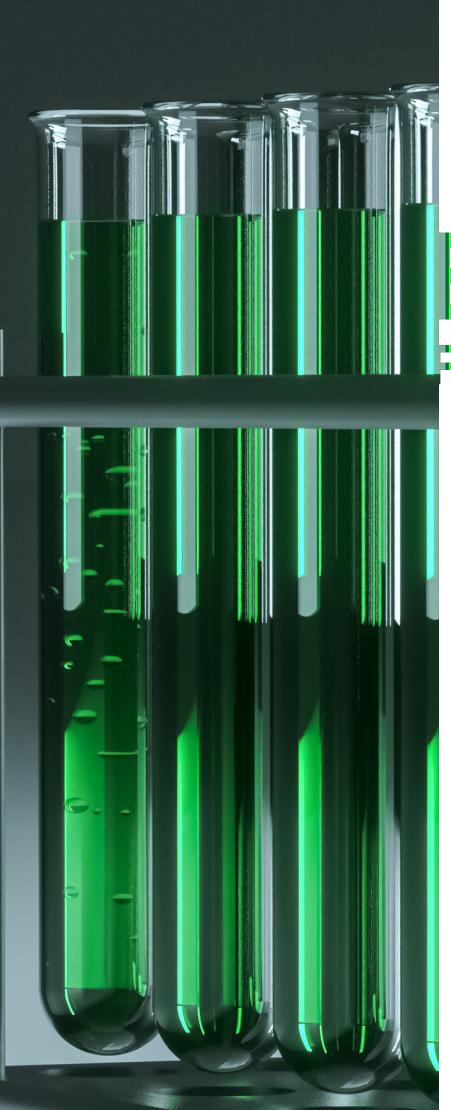
GMOs Qualitative & Quantitative Analysis

ALLERGENS

ELISA, PCR, Digital PCR and LC/MS assay for regulated allergens

METHOD DEVELOPMENT

R&D activity for new analytical tests and "on-demand" analytical method development for specific customer needs.



BEST PRACTICES

"WITHOUT A DEFINED QUALITY ASSURANCE PROGRAMME ALL ANALYTICAL RESULTS MUST BE SUSPECT."

[Harnly and Wolf, 1984]

QUALITY AND PRECISION

The Neotron quality assurance program is an integrated system developed at different levels of the organization, all phases of the analysis process are covered by one or more levels of quality control.

QUALITY ASSURANCE PROGRAM ANALYTICAL RESULTS

RELIABILITY

THE QUALITY ASSURANCE PROGRAM IS A SET OF PROCEDURES AIMING TO GUARANTEE RELIABLE RESULTS AND MINIMIZING THE POSSIBILITY OF ANALYTICAL MISTAKES.

DIFFERENT LEVELS OF QUALITY ASSURANCE PROGRAMME



method-specific)



Analytical method validation/ accreditation



Internal quality controls embedded in routine activity (spiked samples, duplicate analysis etc.)



Inter labratory method verification (proficiency tests)





The quality assurance program covers each single analytical activity step with one or more levels.





LABORATORY "HORIZONTAL" QUALITY CONTROL PROGRAM.

Level 1 "horizontal quality control program" is intended for all the analytical activity without distinction based on the analytical method in object.

MAIN "LEVEL 1" QUALITY CONTROL PROCEDURES:

- Samples registration phase
- Analytical workflow traceability (barcode system)
- Traceability along the whole analytical process avoids any risk of mixing up samples and represents a precious tool for tracking and controlling the sample flow.
- Equipment performance test Performances of instrumental systems are regularly checked by injecting a reference material solution several times. The area and the retention time of analyte have to be stable within a defined tolerance. The performances control is evaluated by acceptability criteria defined for every type of instrument.
- Reference materials management The wrong management or the poor quality of reference materials is one of the main sources of errors in analytical activity.

Neotron analytical determination are performed using certified analytical standard and certified reference materials stored in a dedicated room with restricted access (automatic locked door).

Refrigerators temperature is constantly monitored. All reference materials are registered in a database containing the following information:

- NAME and CAS Number
- Unique code
- Expiring Date
- Storage temperature
- Lot number



ANALYTICAL METHOD VALIDATION AND ACCREDITATION.

Analytical method development and validation workflow

PRELIMINARY STUDY

METHOD VALIDATION

ROUTINE USE

Level 2 Acceptance criteria

Level 3 Constant performance monitoring

Before introduction in routine use analytical methods are validated and "core-business" methods are accredited.

ANALYTICAL APPROACH CHOICE

Decision of use/not use instruments and kind of instruments on the basis of method fit for purpose

DEFINITION OF THE ANALYTICAL PROTOCOL AND FEASIBILITY TEST

Definition of all the analytical phases: sample preparation, extraction, purification, detection parameters. Feasibility tests to see if the method works properly

METHOD VALIDATION

Series of tests repetitions and results statistical treatment to evaluate the method performances

METHOD VALIDATION

PERFORMANCE

VALIDATION PARAMETERS

Linearity Selectivity
Limit of quantification/
detection Precision
Accuracy Uncertainty

ACCEPTANCE CRITERIA



ROUTINE ACTIVITY INTERNAL QUALITY CONTROL.

Quality must be assured during day-by-day analytical activity.

For each analytical batch we can have different internal quality controls (IQC). IQC are realized with respect to criteria specifically defined in order to guarantee that routine analyses are carried out respecting our quality standards and specifications.

PARAMETER	IQC (Internal Quality Control)	CRITERIA (defined by the method validation, criteria reported below are examples)
Recovery	Spiked sample/QC sample	70% – 120%
Linearity	Calibration curve	R2 > 0.995
Sensibility	Calibration curve	LoD calibration point S/N > 6
Operator performances	Blind control sample	Accuracy and reproducibility
Interference/Contamination	Reagents blank	Absence of interfering signal or contaminated reagent
Matrix-effect	Solvent calibration vs matrix calibration	Evaluation of the true recovery





INTER LABORATORY METHOD VERIFICATION (PROFICIENCY TESTS)

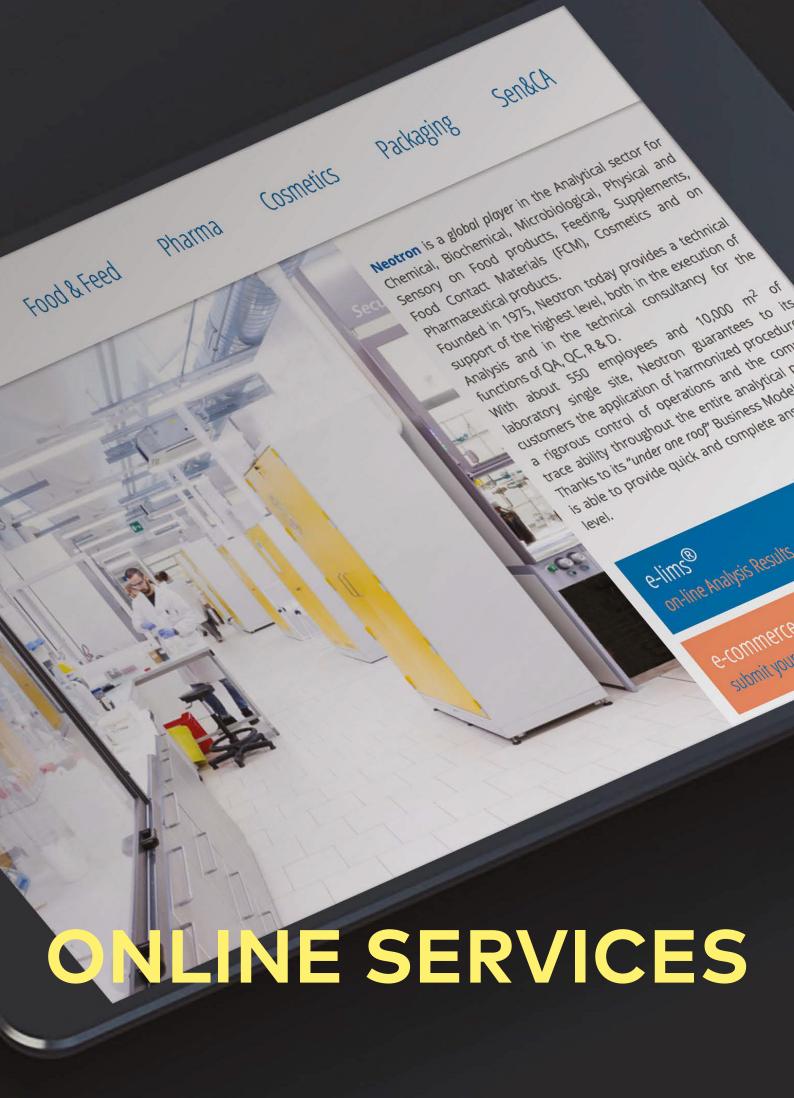
Proficiency test (P-test) is an efficient and important tool to prove the competence of laboratory and the reliability of the analytical results.

P-test is an inter-laboratory activity in which different laboratories perform the test of the same analyte/s in the same sample to evaluate and compare laboratory performance. Neotron takes part in many "Proficiency Tests" for different kinds of analyses made on plenty of matrixes.

In the last years Neotron has been involved in around 150 P-test every year: providers, accredited in conformity with Regulation ISO/IEC 17043:2010 "Conformity assessment -- General requirements for proficiency testing" to which Neotron usually refers are:

- FAPAS (UK): around 70 P-test for year
- LGC (UK) for microbiology: around 50 P-test for year
- COI olive oil
- BIPEA (Filth test, nutritional analysis, contaminants)
- QS (Pesticides and Dioxins -PCBs)
- GAFTA (Analysis in Grain and Feed)
- PROOF-ACS for contaminants
- DRRR for total migration analysis, specific, and MOSH
 -MOAH, DGF Germany Oils and Fats (oil analysis and
 MOSH / MOAH), NIST (for contaminants in Baby Food),
 EURL POPs (for Dioxins and PCBs, and Ethylene Oxide),
 Wine Italian Union (for analysis on wine, vinegar and byproducts)

This activity of Quality Assurance is realized according to an Annual Plan, which can be shared with customers. In case the customer is interested to know the P-Test results regarding a certain method, these results can be communicated after request.



e-lims®

On-Line Tracking Samples.

You can follow your sample progress in real time with a direct connection to our Web Server, as well as check all your samples delivery dates and results. You can also view on-line Digital Photos for each sample and download Test Reports as PDF.



e-lims® CLIENT

Software for analyisis and statistic management.

You can menage all your results, statistic data, law and specification limits, view test reports in PDF format. Automatic data import from email.

e-commerce

On-Line Laboratory Order.

You can submit all your orders directly through e-commerce and print your "Laboratory Order". You can also call Courier for pick-up of samples for most countries worldwide within 24 hours. In addition, from EU countries, you can choose transport by road in 48 hours, in this case the shipment is free of charge.

QUALITY AND



CERTIFICATIONS, ACCREDITATIONS AND QUALITY SYSTEM

Neotron offers a complete chemical analysis service for the safety and quality of the entire agri-food supply chain: finished products, raw materials, packaging.

Neotron has laboratories of over 10,000 m² organized in a single production unit. Thanks to the concentration of know-how and technology, Neotron guarantees the highest level of quality and reliability of the analytical data, as well as immediate assistance to the customeron any Alert of the Agri-food sector.

For all the samples analysed Neotron provides the complete traceability of the analytical data, starting from the digital photos of the samples being accepted, following the internal steps and the processing steps are automated with the Barcode Scanning system for the complete management of the Sample Tracking.

Neotron has been a reference chemical laboratory for the most important European and global multinational food industries for many years.

NEOTRON

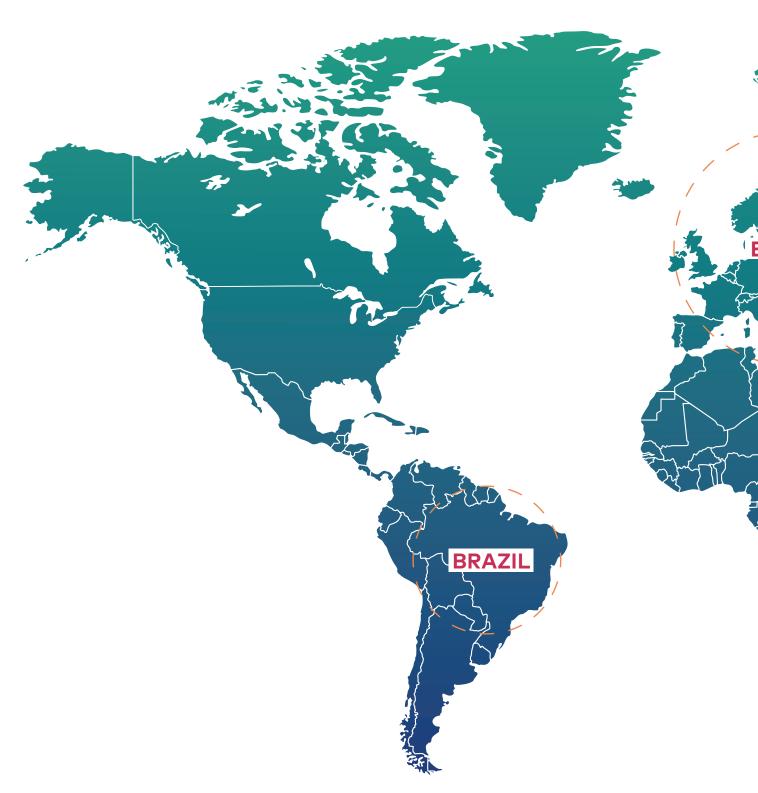
- Laboratory accredited by ACCREDIA according to the ISO 17025:2017 standard (N° 0026)
- Laboratory recognised as Analyst Member by FOSFA International, for Oil Seeds analysis
- Laboratory certificated by QS Fachgesellschaft for Fruit, Vegetables, Potatoes and Feed
- BNN Monitoring Germany approved laboratory for residue monitoring in fruit, vegetables, cereals, cereal products, oil seeds
- VLOG Authorization (no genetic engineering)
- GMP PLUS approved laboratory for analysis on Feed, Feed raw material, Feed Supplements.
- GAFTA (UK) Certification "Approved laboratory under the Grain and feed trade association Analyst scheme"
- IOC Recognition (International Olive Council)
- Certification for the analyses of samples taken during controls in organic farming
- Registration of Neotron Laboratory for the Japanise Health Ministry
- Accreditation to perform pesticide residue analysis on vegetables and fruit products intended for the Russian market
- Accreditation to perform PCP (Pentachlorophenol) analyses according to UNI CEI EN ISO/IEC 17025
- Authorization to perform qualitative and quantitative analyses in medicated feedstuffs, issued by Ministry of Health
- Authorization to perform official analyses in oil, issued by the Ministry of Agricultural and Forestry Policies
- Authorization to perform official analyses in wine, issued by the Ministry of Agricultural and Forestry Policies

- Italian Coeliac Agency ONLUS Authorization
- Authorization by F.A.C.E. [Federación de Asociaciones de Celiacos de España (FACE)]
- Authorization to perform analyses products destined to a particular feeding
- Authorization to perform analyses on Beverages in general, Wines, Grape and Wine derivantes, Alcoholic beverages, issued by Brazilian Agricolture Ministry
- Regional recognition for performing analysis within analytical control procedures on foodstuff, under the number 008/MO/008
- Registration of Highly Qualified Public and private Laboratories
- Quality policy according to UNI CEI EN ISO/ IEC 17025
- Authorization for the procurement and use for analytical purposes of standards containing COCAINE for analysis on food
- License to use the drug precursors Ergometrina, Ergotamina, Safrole and Isosafrole
- Authorization for the procurement and use for analytical purposes of standards containing THC for analysis on foods derived from hemp seeds

NEOTRON PHARMA

- GMP Authorization (Good manufacturing practice) of Neotron Testing Facility for chemical and physical quality control test
- AIFA Italian Medicines Agency
- Certificate of FDA registration (Food and Drugs Administration)
- Authorization issued by Ministry of Health for veterinary drugs
- Authorization issued by Ministry of Health for drugs and psychotropic substances

NEOTRON IN THE WORLD



AUSTRIA sales.ch@neotron.it

BELGIUM sales.ne@neotron.it

BOSNIA AND HERZEGOVINACROATIA/ MONTENEGROREPUBLIC OF MACEDONIA SERBIA/SLOVENIA sales.sl@neotron.it BRAZIL sales.br@neotron.it

BULGARIA sales.gr@neotron.it

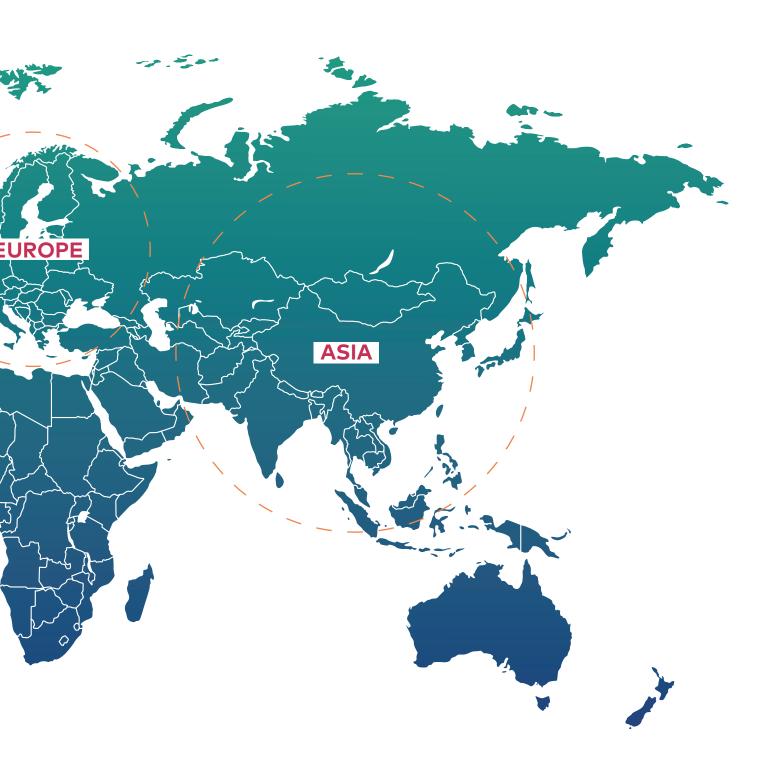
CZECH REPUBLIC sales.de@neotron.it

DENMARK, FINLAND, NORWAY, SWEDEN sales.dk@neotron.it ENGLAND sales.uk@neotron.it

FRANCE sales.fr@neotron.it

GERMANY sales.de@neotron.it

GREECE sales.gr@neotron.it



HUNGARY sales.sl@neotron.it

INDIA sales.in@neotron.it

ITALY customercare@neotron.it

POLAND sales.de@neotron.it

PORTUGAL sales.pt@neotron.it

ROMANIA sales.gr@neotron.it

SLOVAKIA sales.de@neotron.it

SPAIN sales.es@neotron.it

SWITZERLAND sales.ch@neotron.it

THE NETHERLANDS sales.ne@neotron.it

TURKEY sales.tr@neotron.it

OTHER COUNTRIES customercare@neotron.it

INFO /CONTACTS

NEOTRON SpA

STRADELLO AGGAZZOTTI 104 41126 MODENA MO

Tax code: 03807840362

VAT no.: 03807840362

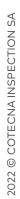
Ph +39 059 461711 Fax +39 059 461777

For further Information, please contact us:

customercare@neotron.it www.neotron.it







www.neotron.it

