#### **Company Profile**

# 

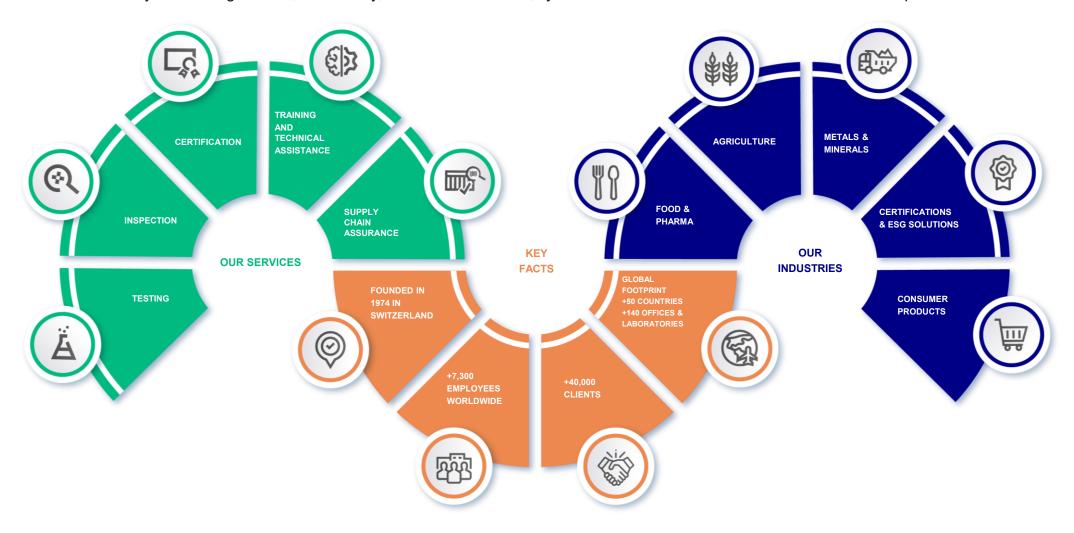


#### **Corporate Organisation**

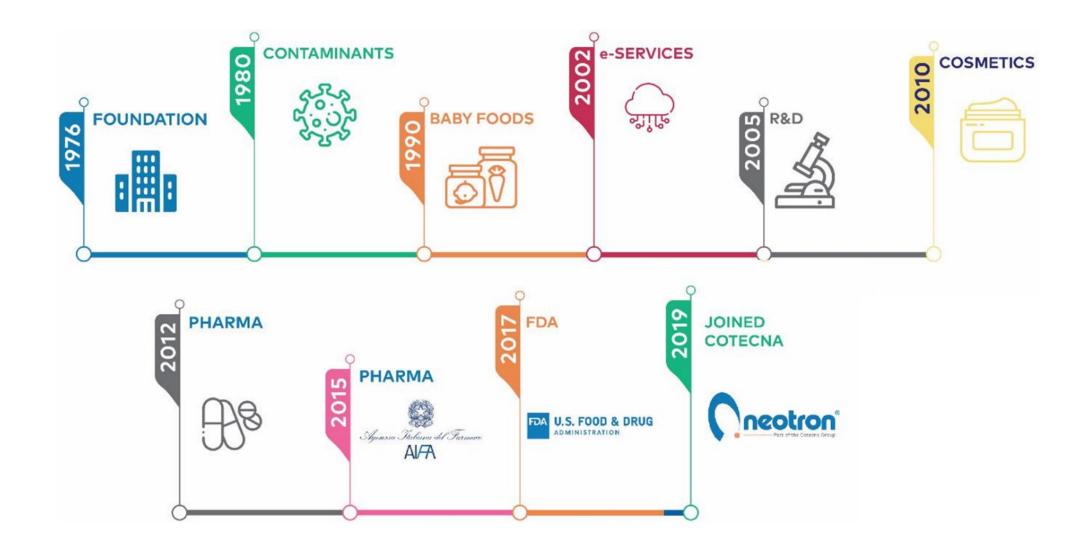


#### **Cotecna Group**

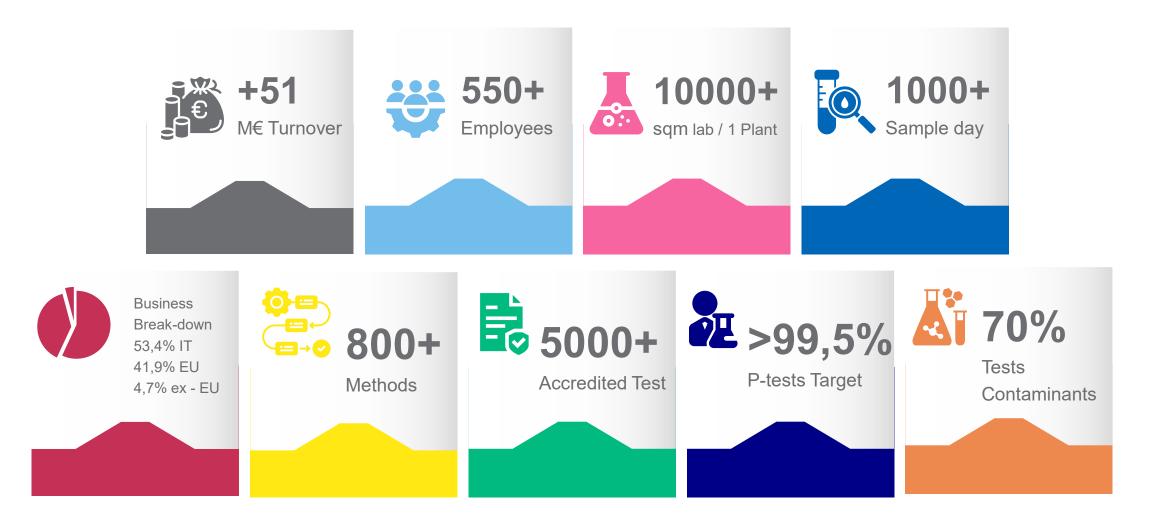
**Cotecna** is a leading provider of testing, inspection and certification services. We offer solutions to make supply chains **safer** and **more efficient** for our clients. Our network of professionals and certified laboratories provides expertise across **five** key sectors: agriculture, food safety, metals and minerals, system certification & ESG solutions and consumer products.



## History



#### **Neotron numbers**



## Fields of testing activity



#### Pharmaceutical main authorizations

AIFA - Italian Medicine Agency European GMP Certificate for Human Medicines Italian Ministry of Health

European GMP Certificate for Veterinary Medicines

Usage and detention of Psycothropic Substances

US Food and Drug Administration US GMP Certificate for Human Medicines

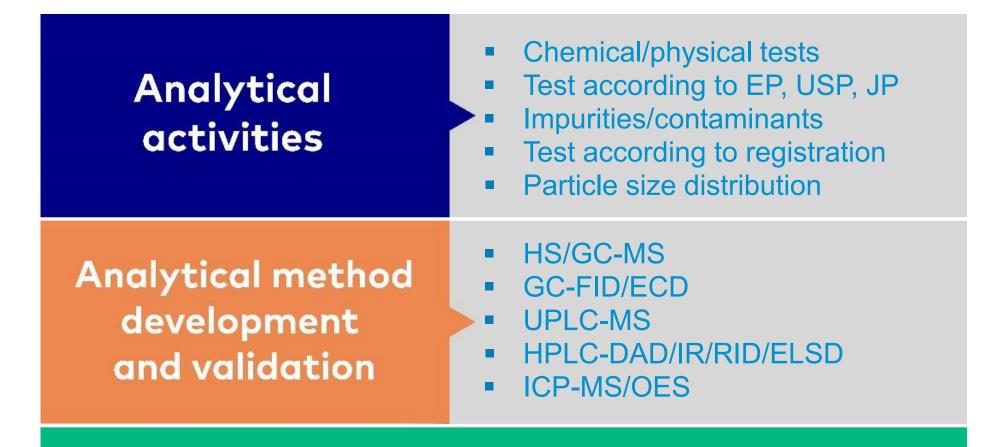








#### **Analytical proposal**



#### **Stability storage services & stability studies**

#### ICHQ 3D Elemental Impurities Analytical Proposal

**ICP-MS** 

**ICP-OES** 

AAS

Determination of Elemental Impurities, in accordance with what is reported in tables 1, 2a, 2b and 3 of ICHQ3D

- Screening
- Method Validation
- Pharmacopoeia analytical approach

#### **Nitrosamines**

Neotron supports customers for screening activities, validation on API, Drugs or excipients for elemental impurities and nitrosamine residues.

GC-MS

HPLC-MS

SCREENING (limited/ semi-quantitative)
 METHOD VALIDATION (quantitative)

HPLC-QTof

#### Nitrosamines What's about new Nitroso APIs focus?

As reported in the latest revision *EMA/409815/2020 Rev.21 of 19 July 2024,* the regulatory authority has updated the list of Nitrosamines to be monitored by also introducing Nitroso APIs and the relative limit for this molecule.

Supplying of Nitros STD
 SET UP of Nitros STD and method (R&D)
 Screening and Method Validation



#### **Extractables and Leachables**

Patient safety and Product integrity

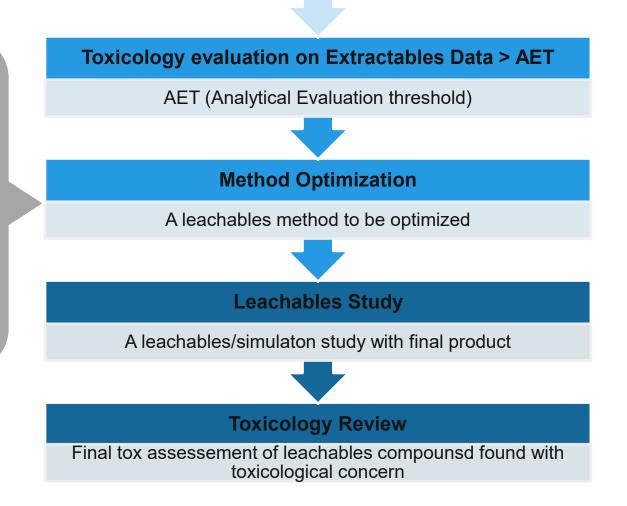
Extractable Study

Controlled extractions of materials/components

ICH, ISO 10993-18, USP 1663/1664, USP 665/1665, PQRI, BPOG

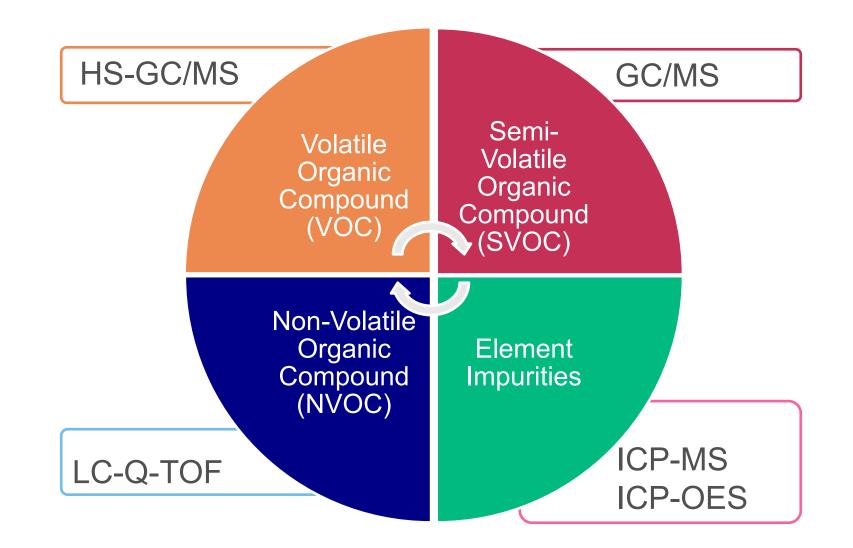
**Packaging materials** are never 100% inert and they can exchange substances through various reaction mechanisms.

The interaction of pharmaceutical products with packaging is an important topic in the plan of pharma product development.



#### **E&L Neotron Approach**

Analytical instruments for E&L Testing for products



#### **Contaminants on Herbals**

#### Controls of contaminants on excipients or herbal drug products according to GMP standards

- Pesticides residues according to Ph.Eur 2.8.13
- Elemental impurities according to ICH Q3D
- Pyrrolizidine Alkaloids (28 molecules) in House method
- ➢ Aflatoxins (B1,B2,G1,G2) in house method
- Ocratoxins in house method

## Hemp & THC/CBD Finished products

Tests of THC Δ8/ Δ9 and Cannabinoids on finished pharmaceutical grade products, botanical extracts, CBD oil.

Analytical service offered:

- DAC monography for Cannabidiol
- **Contaminants** (EI, Pesticides, Mycotoxins)
- Cannabinoids
- Method validation for Assay and Impurities on FP

The laboratory is able to support the customer from an analytical point of view, requesting the appropriate ministerial authorizations for the handling of substances, throughout the supply chain from the raw material to the finished

product.



#### Pharmaceutical method validation



#### **Stability Studies**

#### Accelerated or Long-term stability studies

7 Chambers for climatic zones I, II, IV according to ICH Q1 A (R2):

40°C ± 2°C75% ± 5% U.R.30°C ± 2°C65% ± 5% U.R.25°C ± 2°C60% ± 5% U.R.30°C ± 2°C75% ± 5% U.R.

1 Chamber for light stress test

#### **Neotron Pharma main equipments**

Wet chemistry	Metals	Microanalytical
<ul> <li>&gt; DISSOLUTION Equipment</li> <li>&gt; DISAGGREGATION Equipment</li> <li>&gt; POLARIMETER</li> <li>&gt; FRIABILITY TESTER</li> <li>&gt; HARDNESS TESTER</li> <li>&gt; K.F.</li> <li>&gt; AUTHOMATIC TITRATOR</li> <li>&gt; SPECTROFOTOMETER UV, Vis, IR</li> <li>&gt; DENSIMETER</li> <li>&gt; VISCOMETER</li> <li>&gt; PARTICLE SIZE DISTRIBUTION</li> </ul>	<ul> <li>&gt; ICP-MS</li> <li>&gt; MICROWAVE</li> <li>MINERALIZATOR</li> <li>&gt; ICP-OES</li> <li>&gt; ATOMIC ABSORPTION</li> </ul>	<ul> <li>&gt; UPLC DAD</li> <li>&gt; UPLC Refraction Index</li> <li>&gt; HPLC IR, Fluorimeter, DAD</li> <li>&gt; HPLC Light Scattering</li> <li>&gt; GC-FID</li> <li>&gt; GC-ECD</li> <li>&gt; UPLC-MS-MS</li> <li>&gt; GC-MS MS</li> <li>&gt; HS/ GC-MS</li> <li>&gt; UPLC -TOF</li> <li>&gt; IC</li> </ul>

## THANK YOU www.neotron.it