

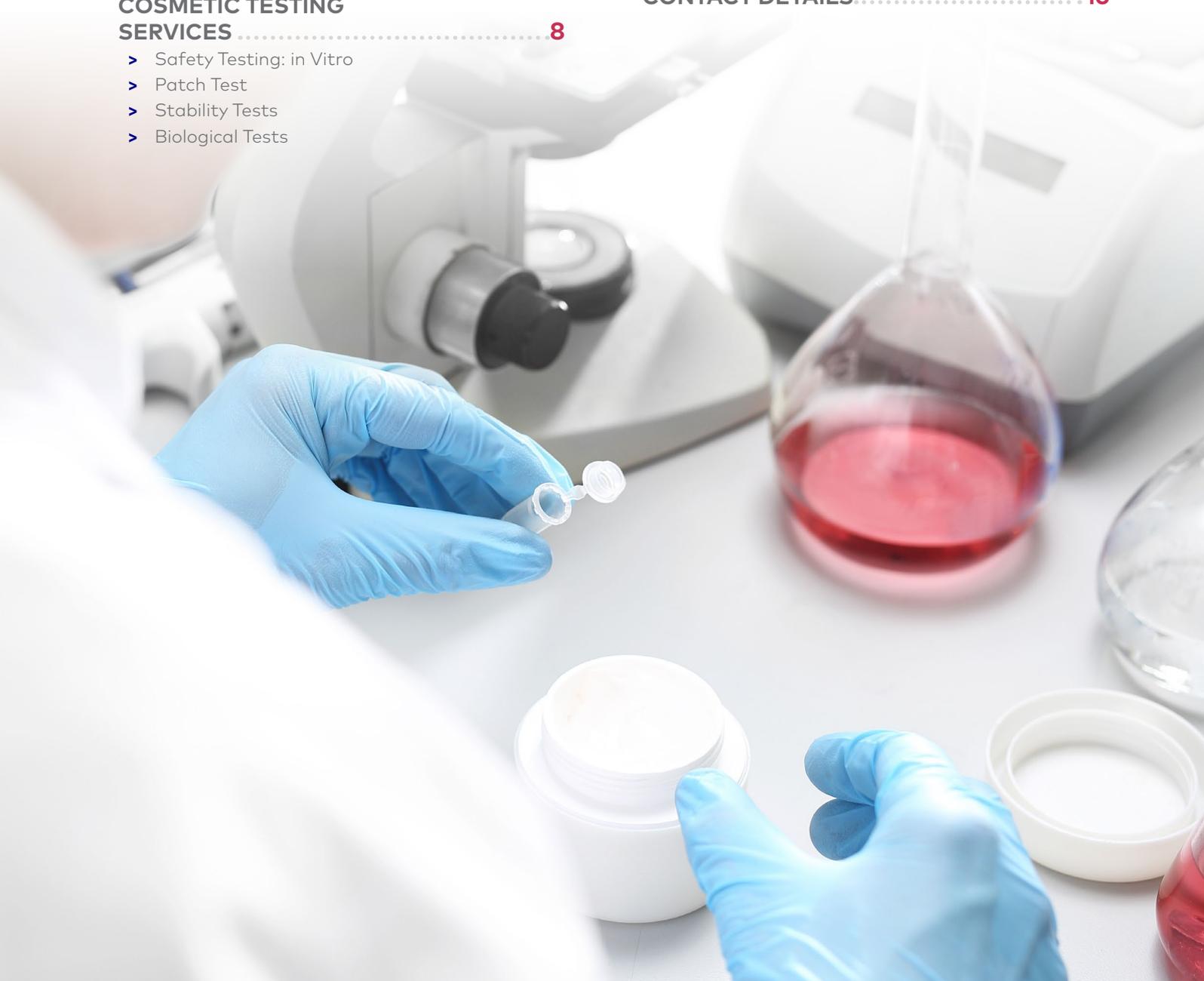


Cosmetics Testing Brochure

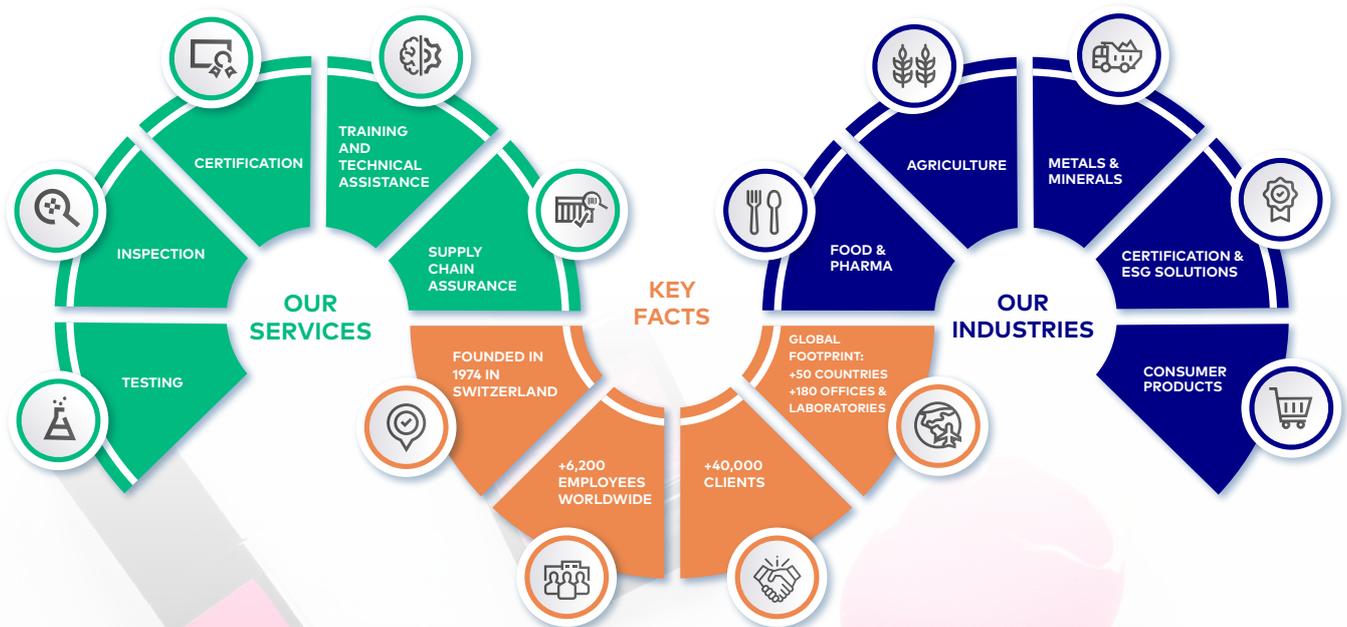
Ensure the quality and compliance of your products as well as the reliability and sustainability of your supply chain with our cosmetics testing.

TABLE OF CONTENTS

INTRODUCTION	1	IN VIVO EFFICACY TEST	12
NEOTRON SERVICE	4	> Skincare	
> Testing		> Sunscreen Products	
CHEMICAL ANALYSES	5	> Haircare	
> Overview		IN VIVO EFFICACY TEST	13
> The Strength on our R&D		> Self Perception Efficacy Evaluation	
MICROBIOLOGICAL ANALYSES	6	SAFETY EVALUATION AND REGULATORY COMPLIANCE	14
ANALYSES ON PACKAGING	7	REGULATORY DOCUMENTS DRAFTING FOR RAW MATERIALS	14
> Migration from packaging to formula		MoCRA TESTING	15
COSMETIC TESTING SERVICES	8	CONTACT DETAILS	16
> Safety Testing: in Vitro			
> Patch Test			
> Stability Tests			
> Biological Tests			



Cotecna is a global provider of testing, inspection & certification services.



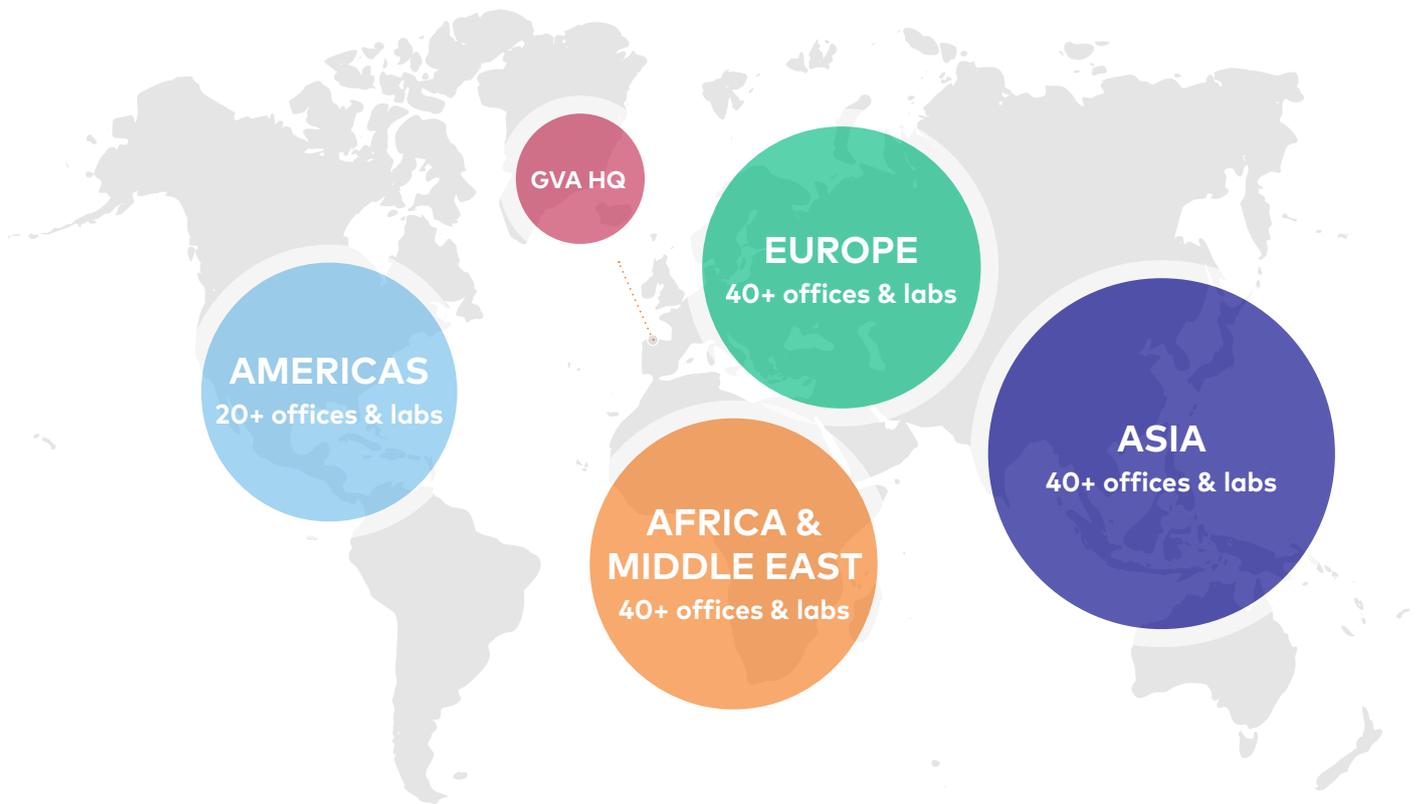
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Contact us www.cotecna.com

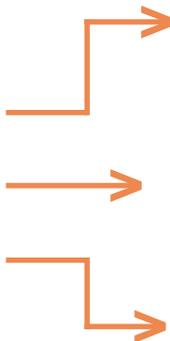
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Cotecna provides state-of-the-art and reliable analytical services to guarantee product safety along the entire supply chain. Our network of experts ensure that your cosmetic products conform to your specifications and any relevant standards.

We help you guarantee the quantity, specifications, measurements, and regulatory compliance of your products. We also verify that packaging, labelling, instructions and markings are in accordance with mandatory standards, and that your suppliers adhere to contractual obligations.



DREAM
DARE
DELIVER



We **DREAM** of being your essential partner for TIC services by differentiating ourselves through technical expertise, innovation, proximity, and reactivity.

We **DARE** to act as challengers by taking risks to build our company and offering you solutions tailored to your needs.

We **DELIVER** on our customer promise, which creates credibility in our abilities

140+
offices
& labs

7,000+
employees

50
countries

Neotron Key Facts and Figures

 **550+**
Employees

 **1000+**
Samples/day

 **100000**
m² Lab / 1 Plant

 **800+**
Methods

 **3000+**
Accredited Tests

 **>99,5%**
P-tests Target

 **70%**
Tests Contaminants

Fields of
Testing
Activity



BABY FOOD



FOOD SUPPLEMENTS

FOOD & FEED



FOOD INGREDIENTS



COSMETICS

neotron
pharma

SENSORY CONSUMER ANALYSIS

FOOD CONTACT MATERIALS



PHARMA GMP LAB INSPECTED

Sen&CA
Sensory and consumer analysis



Neutron is able to provide testing for cosmetic products, including face skin care, body care, sunscreen and sun protection, hair care, nail care, makeup, detergents, shampoos, conditioners, hair cream, lipstick, and wet wipes.



Testing

Our accredited laboratory test your products according to major recognized standards and cosmetic EU and US regulation. Our testing scope includes:

- > **Physical and chemical testing**
- > **Microbiological testing**
- > **In vitro testing**
- > **In vivo efficacy testing**
- > **In vivo safety testing**
- > **Consumer tests**
- > **Sensory analysis**
- > **Stability and Period After Opening (PAO - Period After Opening)**
- > **Content - packaging compatibility studies**
- > **Labelling requirements**



Overview

- > Evaluation of product specification compliance
- > Quantification of cosmetic active ingredients
- > Control of prohibited residues according to the European Regulation EU 1223/2009, Annex II
- > Verification of restricted substances according to the European Regulation EU 1223/2009 Annex III, IV, V, VI
 - Cosmetic allergens
 - Fluorides
- > Identification of Impurities
 - Heavy Metals
 - PFAS
 - Residual solvents such as Benzene
 - Nitrosamines



The Strength on our R&D

Possibility of customized analyses for specific molecules:

- > **Specific impurities of peculiar vegetable extracts**
- > **Rare substances in Annex III**
- > **Specific active ingredients**
- > **Preservatives non-preservatives**
- > **Purity of cosmetic ingredients**

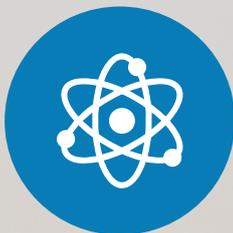
Neutron has an R&D laboratory that can develop customized analytical methods for every customer need.



Microbiological Analyses

- › Challenge Test according ISO 11930
- › Aerobic mesophilic Bacteria Count according ISO 21149
- › Yeasts count according ISO 16212
- › Molds count according ISO 16212
- › Candida Albicans Detection according ISO 18416
- › Escherichia Coli detection according ISO 21150
- › Pseudomonas aeruginosa detection according ISO 22717
- › Staphylococcus Aureus detection according ISO 22718
- › Salmonella
- › Burkholderia cepacia
- › Other detections upon requests.

Migration from Packaging to Formula



Untargeted analyses:
NIAS (Not Intentionally Added Substances)



Target Analyses:
Upon Request



Specific method for recycled packaging



Expertise derived from case studies





Safety Testing: in Vitro

- > **OECD TG 442D:** KeratinoSens™
- > **OECD 492B:** Reconstructed Human Cornea-like Epithelium (RHCE) Test Method for Eye Hazard Identification – Solid product
- > **OECD 492B:** Reconstructed Human Cornea-like Epithelium (RHCE) Test Method for Eye Hazard Identification – Liquid product
- > **OECD 492:** Reconstructed human Cornea-like Epithelium (RHCE) test method for identifying chemicals not requiring classification and labelling for eye irritation or serious eye damage
- > **OECD 439:** In Vitro Skin Irritation: Reconstructed Human Epidermis Test Method
- > **OECD 431:** In vitro skin corrosion: reconstructed human epidermis (RHE) test method
- > **ISO 10993-23:** Biological evaluation of medical devices - Tests for irritation – Extracts on RHE
- > **ISO 10993-23:** Biological evaluation of medical devices - Tests for irritation – Direct on RHE



Patch Test

Evaluate the skin tolerability of a cosmetic product

Patch Test 48h

- > Occluded patch test or semi-occluded patch test or Open epicutaneous test
- > 20 healthy volunteers
- > Dermatological Evaluation (after 24h, 48h)

For Which Claim?

- > Dermatologically tested
- > For sensitive skin
- > Tested under medical supervision
- > Non-irritant for the skin



Stability Tests

- > Based on ISO 18811
- > Expertise in Sensory sciences
- > Customizable protocols
- > Integration with Chemical analyses to detect:
 - Active ingredients profile during time
 - Specific ingredients profile during time (e.g.: UV Filters)
- > Internal test to establish PAO according recognized guidelines



Biological Tests

- > OGM analyses
- > Gluten detection
- > Pig species identification (for Middle EAST export)

In Vivo Efficacy Test Skincare

- > Collagen Density evaluation
- > Whitening efficacy (Colorimeter)
- > Skin elasticity evaluation
- > Sebum –normalizing activity evaluation
- > Comedogenicity Test
- > Skin brightening evaluation
- > Anti-age efficacy
- > TEWL
- > Lenitive efficacy
- > Self-perception tests
- > Consumers tests

In Vivo Efficacy Test Sunscreen Products

- > SPF preliminary test (in vitro)
- > UVA protection according ISO 24443
- > SPF factor determination in vivo according ISO 24444

In Vivo Efficacy Test Haircare

- > SEM analyses
- > Colour retention analyses
- > Hair brightness effect evaluation
- > Self-perception tests
- > Consumer tests



In Vivo Efficacy Test

Self Perception Efficacy Evaluation

ITEMS DEFINITION

- > Estimate self-perception **efficacy** about potential effects related to **INCI list and marketing claim**.
- > To carry out the **positioning** of the examined products in terms of **overall liking** expresses by consumers.



TARGET

- > Selection criteria according to **dermatological and trichological** characteristics
- > The **frequency of purchase** of the product
- > The **purchase channel**
- > Panel **consumer habits**, etc.



OUTPUT

- > Home test / test center / test in store
- > Period of use (related to the product)
- > Self-perceptions and consumer test by respondent using questionnaires

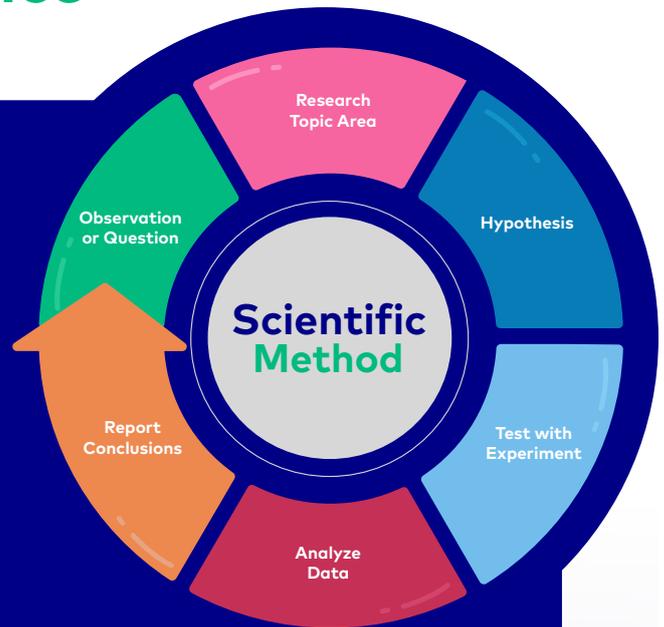


FIELDWORK

- > Data processed and elaborated and interpreted by skilled staff.
- > Different methods are applied according to the type of information intended to emphasize.

Safety Evaluation and Regulatory Compliance

- > PIF Redaction
- > Primary Safety Evaluation- in order to develop a new compliant product
- > Strategy design on tests specific for PIF redaction
- > Responsible Person Identification
- > Labelling control, included claim control
- > Strategy design on tests to support labelling claims (even for products on market)
- > Assistance in evaluation on tests results
- > CPNP Registration



Regulatory Documents Drafting for Raw Materials

-  **TDS Drafting**
-  **SDS Drafting**
-  **IFRA Certificate redaction (fragrances and essential oils)**
-  **Regulatory statements**
-  **Various Declarations for cosmetic raw materials**

MoCRA Testing



Analyses to be used by Quality Control responsible for batch release



Analyses according PHARMA FDA GMP



Strictly collaboration with customers to ensure compliance with new Mocra Requirements



NOTES

CONTACT DETAILS

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