eurofins

Cosmetics & Personal Care

GLOBAL OFFER

Global Expertise, Personal Touch

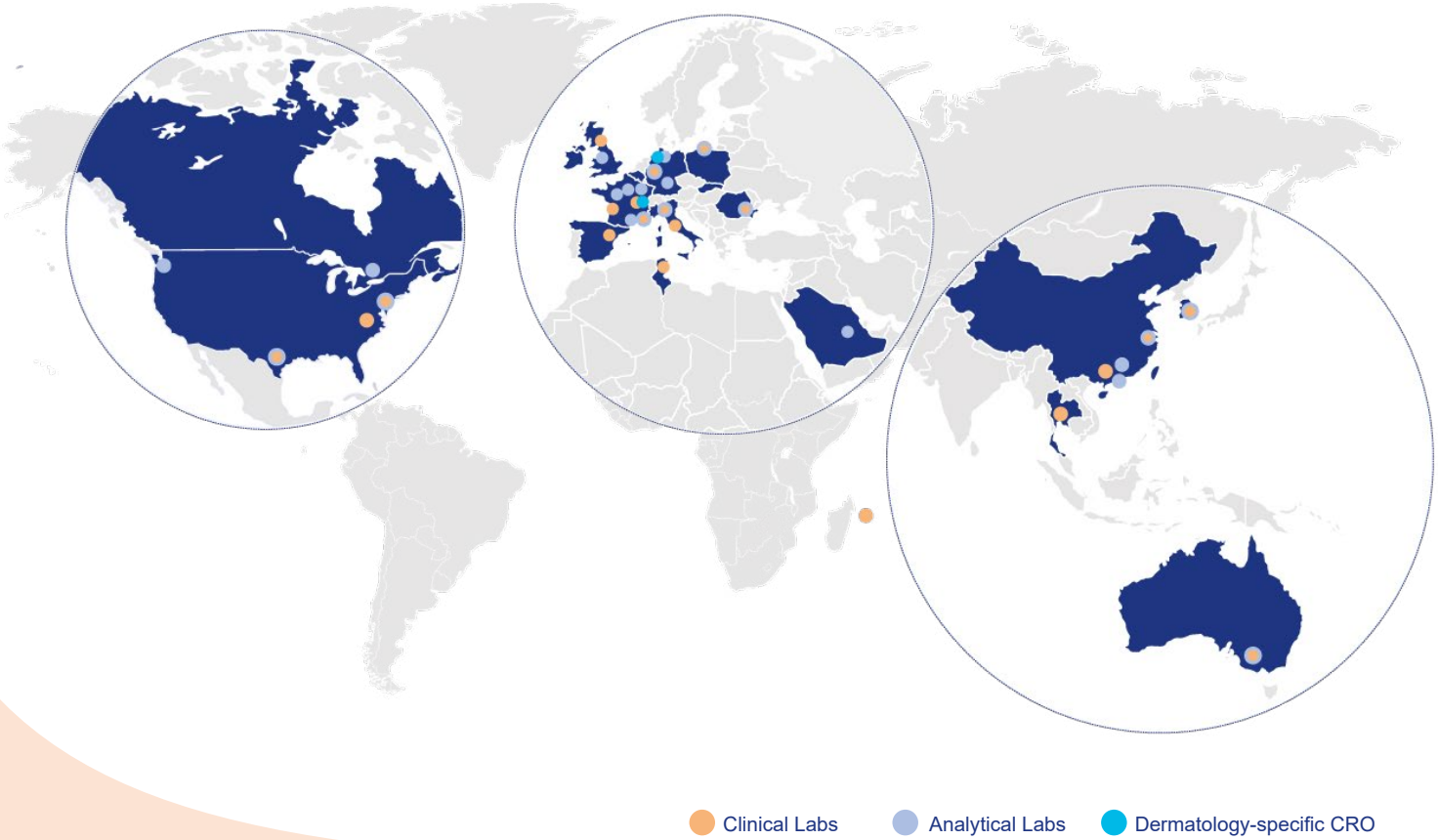
The cosmetics industry continues to move at a fast pace, with new and innovative products, frequently being released to fulfil evolving market requirements and meet the rising safety and efficacy expectations of consumers.

The mission of the Eurofins Cosmetics & Personal Care network of companies is to assist international clients in ensuring the quality, safety, performance and regulatory compliance of the supply chain, from raw materials and ingredients to packaging and finished products.

With a team of experts actively involved in standardisation committees, Eurofins companies are committed to staying up-to-date with the current and future regulatory environment, trends and industry demands.

Eurofins Cosmetics & Personal Care network of companies provides consultancy support and an extensive range of testing services for all types of cosmetics and personal care products.

34 competence centers across 5 continents



Success Motivators to Partner with us

1st in Cosmetics & Personal Care Testing Worldwide

- > **35 years of experience** in Cosmetics & Personal Care
- Community of **well-recognised experts**
- Accessibility to the whole **Eurofins network with single point of contact**

Excellence in Testing

- **Our DNA**: specialist in life science testing
- Unmatched expertise and continuous **innovation**
- Partnership based on **trust, transparency and high quality services**

Entrepreneurial Spirit

- **Flexible** organisation
- **Rapid large-scale** investments to meet client's ambitions

Regulatory & Toxicology

In an increasingly demanding regulatory environment, Eurofins companies can offer personalised support for your cosmetic product compliance procedures, from the first formulation steps, to registering it in different countries, auditing the Cosmetic Product Information File, creating the Cosmetic Product Safety Report, and managing cosmetovigilance throughout the product's entire lifecycle.

Our experts work closely with all relevant departments in the field of product safety and efficacy to ensure optimal coordination and develop a suitable testing plan (i.e. *in vitro* testing, microbiology and clinical studies).

- Regulatory Affairs: MSDS, Registration, Regulatory label check, Borderline products, Market surveillance and vigilance
- Safety Assessment: Toxicological profile, Risk assessment, Cosmetovigilance
- Claim Assessment: Naturalness Index, COSMOS file, NATRUE file, Vegan Verification, Ecolabel Verification
- Scientific Advice / Technical Support

The team has extensive expertise in complex products such as products for babies and pregnant women, sensitive skin, CBD, essential oils, borderline products, solar products, recycled packaging, and specific fields such as container-content interactions (stability, compatibility), allergens, raw materials, medical devices, dietary supplements, and exposure of beauticians to professional-use cosmetic products.

Eurofins Cosmetics and Personal Care network of companies verifies according to many major standards and regulations around the world, including EU, UK, US, Canadian, Chinese and Indian cosmetics regulations.

Analytical Testing

With the largest analytical offering worldwide, Eurofins has been supporting companies for more than 35 years.

Our laboratories, working with state-of-the-art equipment, provide high quality services to assess the quality of raw materials, finished products or packaging materials.

Our analytical portfolio includes:

- Forbidden / restricted substance analysis: 26 to 60 Allergens, Formaldehyde, Heavy Metals, Nitrosamines,Phthalates, Parabens, Benzene, PFAS, Preservatives...
- Active substance analysis: Aluminum, Fluoride, Titanium Dioxide, Zinc Oxide, Chemical UV filters, Vitamin quantification...
- Stability & Compatibility:
  Particle size, Food contact & Migration testing

In addition to these routine analyses, our laboratory experts also work on:

- R&D support,
- Analytical method development,
- Method validation,
- Implementation of client's methods,
- Cleaning validation processes
- Physical testing: pH value, density, flash point
- Performance tests

6 Analytical Labs

> 133,000 Analytical Studies

Microbiology

>23,000 Microbiological Studies

4 Microbiology Labs

Microbiological quality is critical to cosmetics product safety assessments. European Cosmetics Regulation (EC 1223/2009) requires evidences of the microbiological quality of cosmetic formula, raw materials, bulk, finished products and also a preservation challenge test.

Eurofins network of companies supports its clients by carrying out complete range of testing and services, in accordance with industry standards and current regulations (ISO, EP, USP, JP or local/clients norms).

- Microbiological Quality Control of Products: Total Counts TYMC and TAMC, Detection and identification of specified microorganisms, Detection and identification of specified and non-specified microorganisms, Sterility tests
- Validation - Method Applicability: Neutralisation of antimicrobial product properties Validate diluent/neutraliser broth and dilution factors
- Evaluation of antimicrobial protection of cosmetic products: Challenge Test, Accelerated stability testing at 40°C and relative humidity testing at 75%, Screening, Measurement of water activity
- Validation of growth medium (Sterility, Fertility, Inhibition, Selectivity)
- Surface and Atmospheric Controls
- Microbiological water analyses
- Customised micro testing
- Compatibility studies

Ecotoxicity & Biodegradability

What is Biodegradability?

Biodegradability is the capacity of a material to decompose over time as a result of biological activity into smaller molecules (carbon dioxide, water, mineral salts…).
OECD 301 Guidelines (readily biodegradability) are the standards most commonly used to measure a substance's biodegradability. The standard for the assay is chosen according to the properties of the test substance (solubility, volatility, etc.). Biodegradability tests on finished products and raw materials are very important issues for the cosmetics market. Indeed, biodegradability is a criterion in regulations such as REACH or for labels with a European Ecolabel (according to OECD guidelines).

Some of the biodegradability tests offered include:

- Ready biodegradability
- Ultimate aerobic biodegradability
- Manometric respirometry
- Intrinsic biodegradability

> 500 Samples Biodegradability

> 7,000 Samples Ecotoxicity

What is Ecotoxicity?

Ecotoxicity is the measure of the impact of substances on living organisms in various ecosystems, such as fresh water, sea water, and terrestrial media. Depending on the method, we can study the acute toxicity or the chronic toxicity. Like biodegradability, ecotoxicity is a criterion in regulations or for eco-friendly labels (according to OECD or ISO guidelines).

Some of the ecotoxicity tests offered include:

- Acute and Chronic toxicity
- Fresh water and Sea water organisms: Daphnia, Microtox, Oyster, Algea, Corals…
- Terrestrial organisms: Worms, Plants

Cosmetogenomics

Cosmetogenomic analysis allows the response of the human genome to be studied (quantification of the expression of all the genes in the human genome). The human genome reflects physiological or pathological conditions, as well as the effects of a treatment. After RNA extraction/validation from skin explants, cell lines, primary cells or reconstructed epidermis, cosmetogenomics helps to screen raw materials or evaluate of the efficacy of finished products through gene expression profile analysis.

Eurofins offers comprehensive, quality-driven genomics services that expedite the translation of basic research into cosmetics and nutraceutical product development.

- Adapted biological models for DNA/RNA/miRNA extraction: In vitro (2D cell cultures, keratinocytes, fibroblasts, melanocytes, etc.), ex vivo (skin explants, adipose tissue, scalp, isolated hairs, etc.), FFPE samples, in vivo (skin microbiota, tape strips)
- Tissue challenges: UV irradiation, blue light, pollutants, pollen exposure, wound methods, etc.
- Custom technical solutions: DNA microarray, miRNA microarray, qPCR-gold standards, PCRarray- Flexible, customisable, etc.
- Eurofins provides all its expertise for your personal care and nutrition projects.
- Discovering new molecular signature of your actives
- Identifying biological mechanisms of ingredient
- Developing high-performance, innovative products
- Rationalising product development cost
- Improving clinical studies

> 10 000 microarray data from *ex vivo* studies
> 8 000 microarray data from *in vitro* studies
> 5000 custom PCRarray evaluation

In vitro Studies

We offer *in vitro* tests for cosmetic ingredients, finished products, raw materials and medical devices. We have put our experience at the service of players in many industries, such as the cosmetic, biotechnological, chemical, and pharmaceutical industries.

Evaluating the safety of your products and protecting the health of consumers are at the heart of what we do.

Within a demanding regulatory framework, we offer you a unique and comprehensive portfolio of *in vitro* tests to assess the safety of your ingredients and finished products. Our experts support you in selecting the most suitable tests for the development of your cosmetic projects while ensuring compliance with regulatory requirements as soon as possible.

Some of the *in vitro* studies offered include:

Safety

- Cytotoxicity
- Skin and eye irritation and tolerance
- Skin sensitisation
- Phototoxicity (in cell culture and in human 3D skin model)
- Genotoxicity
- Lipid metabolism / lipolysis
- Aging and oxidative stress, loss of tension and elasticity, etc...

All our studies are carried out in accordance with Good Laboratory Practices (the presumption of conformity is issued by the Supervisory Authorities).

Efficacy

- Solar studies *in vitro*
- HEV *in vitro* test
- UPF textile test
- Anti-pollution *in vitro* etc...
-

Eurofins Cosmetics & Personal Care laboratories have also developed safety tests that are fully vegan.

6 *In vitro* Labs

> 20 Years of Experience

> 20,000 *In vitro* safety studies

Ex vivo Studies

The efficacy of cosmetic products must be backed by scientific evidence, according to the European Cosmetic Regulation (EC 1223/2009). The ex vivo model, using living human skin explants, allows the efficacy of a cosmetic formulation, active ingredient or device to be evaluated under conditions closest to real use.

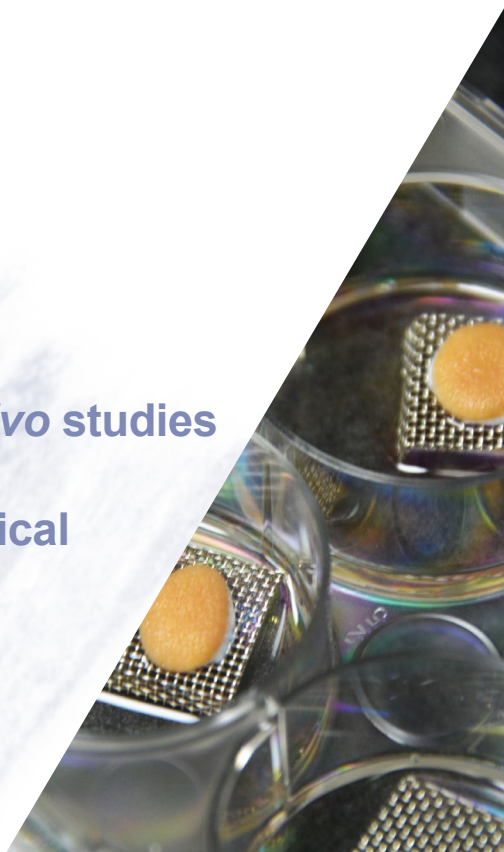
Topical (on skin surface), systemic (in medium) or injection (intradermal or subcutaneous) applications are all possible on skin explants. The ex vivo model allows various external stresses to be reproduced, e.g. UV light, pollution, chemical or mechanical aggression, temperature, wound, irritation, pathogenic bacteria.

Eurofins Cosmetics & Personal Care provides testing services to support your cosmetic claims. We perform efficacy tests to provide scientific proof of the claimed effects of your cosmetics, illustrated with photographs. Ex vivo studies on living human skin explants may include:

- Histological (immunostaining) analysis
- Biochemical (ELISA) analysis
- RAMAN spectroscopy
- Topography
- Instrumental measurements (corneometry, TEWAmetry, cutometry)
- Penetration analysis (Franz cells)
- Macro photographs
- Confocal microscopy
- Microbiological analysis (skin microbiota)
- Electronic microscopy
- 3D imaging.

> 5 000 *ex vivo* studies

> 400 biological markers



Clinical Studies

A clinical study involves human panellists that test the product, either under normal conditions of use (“in use” tests) or under relevant experimental conditions of use (single use, maximised use).
With a worldwide network of laboratories, Eurofins has access to a wide panel of multi-ethnic subjects with specific criteria. This allows us to undertake multi-centric trials with a dedicated recruitment process that considers different skin types and environmental aspects.
Assessments may include objective medical exams, beauty experts’ and/or instrumental measurements, and consumer preferences through self-assessment questionnaires.
The outcome should take into account the efficacy claims to be substantiated or the safety issue to be addressed by the study, or both.

Some of the clinical studies offered include:

Safety
- Patch test
- Sensitisation test
- Phototoxicity test
- Photosensitisation test
- Photo-irritation
- In Use test
- Clinical scoring ...

Efficacy
- Skin regeneration
- Blue light / infrared protection
- Microbiome analysis
- SPF
- Wellness
- Anti-pollution
- Anti-Aging
- Moisturisation
- Skin Barrier
- Food/dietary supplements
- Athleisure
- Teeth hypersensitivity
- Mask testing
- Hair testing...

Our studies are made under dermatological control, and in the presence of our medical investigators and trained assessors.

Medical Investigators
Dermatologists, Ophthalmologists, Paediatricians, Gynaecologists, Dentists, General Practitioners, Podiatrists, Odonatologists, Rheumatologists, ENTs, Gastroenterologists

Trained Assessors
Aestheticians, Hair Stylists, Beauticians ...

24 Clinical Labs

> 100,000 Multi-ethnic Subjects

> 25,000 Clinical Studies

Consumer Test & Sensory Evaluation

16 Locations in 8 Countries

> 180,000 Consumers

> 22,000 Projects

Eurofins network of companies offers a wide variety of approaches, methods and tools for sensory and consumer research. These are applied to many different product categories including, but not limited to, health-care, personal-care, cosmetics, perfumery and other related industries.

Our methods provide powerful results in almost all situations and categories where measurement and analysis of consumer perceptions is possible and where results are useful in achieving business objectives. Our outputs play a key role in supporting product development decisions which are directed at both immediate product success and long-term competitive advantage.

This is achieved by a deep understanding of consumer usage, attitudes, responses to, and acceptance of, products and brands in a competitive context.

The aim is to deliver robust, validated results which inform activities such as product optimization, product positioning, product fit within a brand, raw materials selection, quality control and many others.

Some of the clinical studies offered include:

- Consumer Research Testing / Home Use Testing
- Sensory Evaluation: Descriptive method – Full & Rapid Profiling Discrimination Testing..
- Quantitative method: Product Performance, Marketing Mix Assessment...
- Qualitative method: Creativity workshop, Sensory Focus Groups, Home Flash...
- Hedonic Test

Audit & Consulting

Compliance with the regulations of your target market is a key step in order to ensure that you gain fast and unrestricted market access.

We harnesse the expertise of our global network of Consultants, Auditors and Trainers to ensure that your products, supply chain and distribution flows meet global market and regulatory requirements including, but not limited to:

- GMP following the EU n°1223/2009 regulation, such as ISO 22716
- OTC manufacturing following FDA and Health Canada regulations
- ANVISA RDC 48-2013
- EU n°831/2019 regulation
- EU n°679/2016 regulation, GDPR and others

With a recognised network of experts, Eurofins Cosmetics & Personal Care, through our network of companies, is a world leader in the cosmetic and personal care testing industries, and provides a wide range of services in:

Auditing: Evaluation of your supply chain, manufacturing sites and distribution flows, on-site audits and remote audits.

Consulting: Gap analysis, definition of CAPAs and support in the implementation of them, improvement of quality systems (CAPA, deviation, change control, batch records, OOS, risk analysis etc), support in validation, regulatory filing and quality investigation.

Training: Provision of customised training, in English or local languages, including technical and regulatory training courses, among others.

30 Countries across 5 Continents

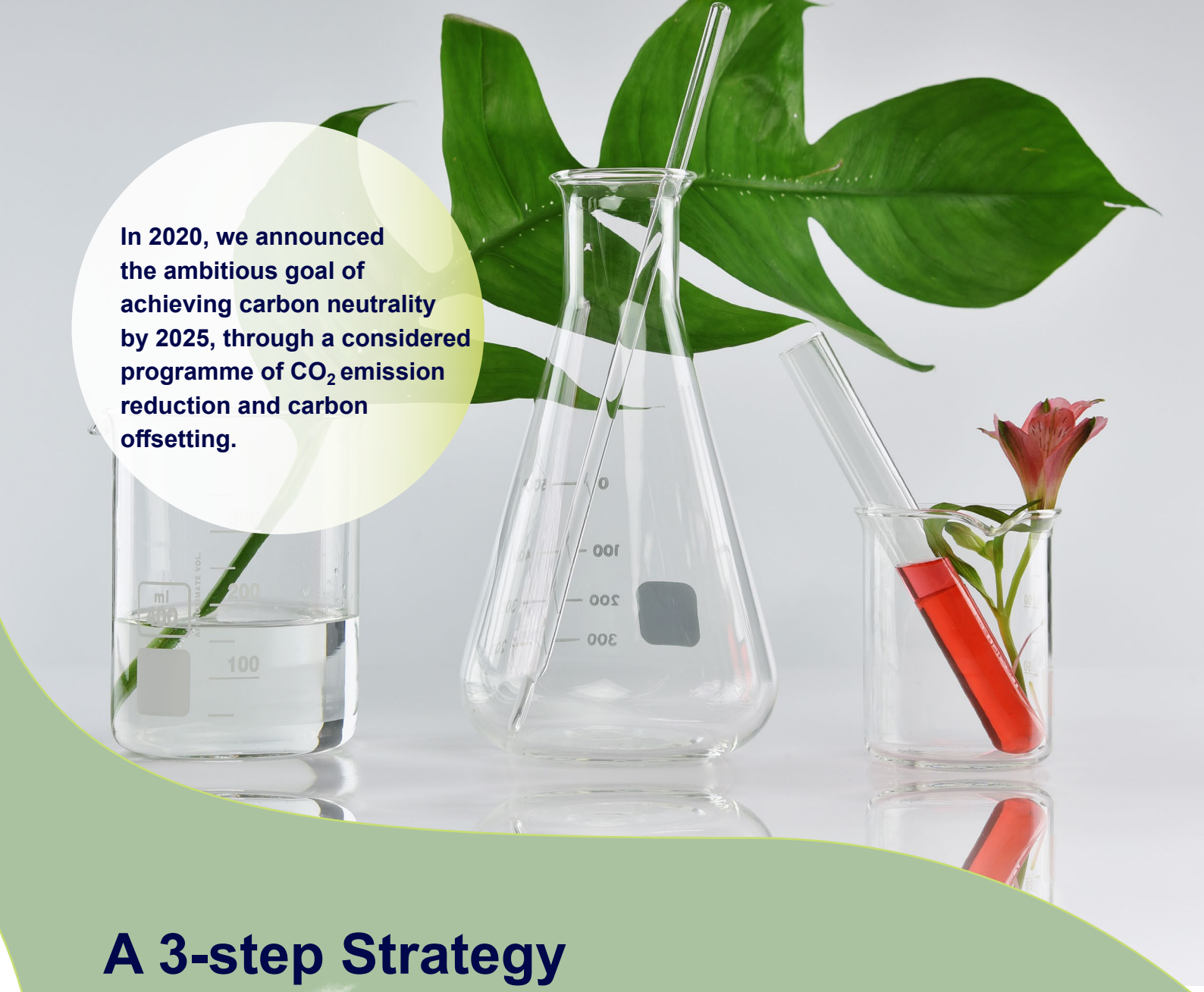
> 25 Years of experience: auditors, consultants

Sustainable Approach

In recent years, consumers have become more conscientious, understand more, and have a sense of responsibility to purchase products which not only work and are good for their skin but are also ethical and environmentally friendly.

They consider the environment, and therefore gravitate towards more environmentally friendly products. This impacts several product categories and has inspired scientific breakthroughs and innovation.

Brands have to face new sustainability challenges, including the development of new packaging from diversified materials and new marketing claims… all whilst respecting the regulations applicable to cosmetics and personal care products. To achieve this, Eurofins Cosmetics & Personal Care network of companies supports customers to work in a more sustainable way.



In 2020, we announced the ambitious goal of achieving carbon neutrality by 2025, through a considered programme of CO_2 emission reduction and carbon offsetting.

A 3-step Strategy

Environmental Impact

- Ecotoxicity & biodegradability testing
- Compostability testing
- Microplastics testing
- Eco-friendly packaging development

Refillable Solution

- Procedures for workers in shops and training
- Cleaning protocols
- Reusable packaging testing
- “Mystery” client audits and quality audits
- Quality control in shops

Vegan Offer

- Toxicology and Regulatory Assessment
- Animal DNA Analysis
- On-site Audit
- Declarations of conformity / labelling

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