



**ANALYTICAL
CHEMISTRY,
CLINICAL EFFICACY,
CLINICAL SAFETY,
MICROBIOLOGY
AND MEDIA
SUPPORT.
ALS, WE MAKE
IT EASY.**





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and Technical Knowledge
in a single place

For over 45 years, **ALS** has provided comprehensive testing solutions to customers in a wide range of industries around the world. The company is a leading global provider of laboratory testing, inspection, certification and verification solutions.

ALS laboratories are internationally recognized for operating in more than 70 countries offering an extensive variety of tests, research, special projects and certifications for the environmental, food, agribusiness, pharmaceutical segments and also **PERSONAL CARE - OVER THE COUNTER**.

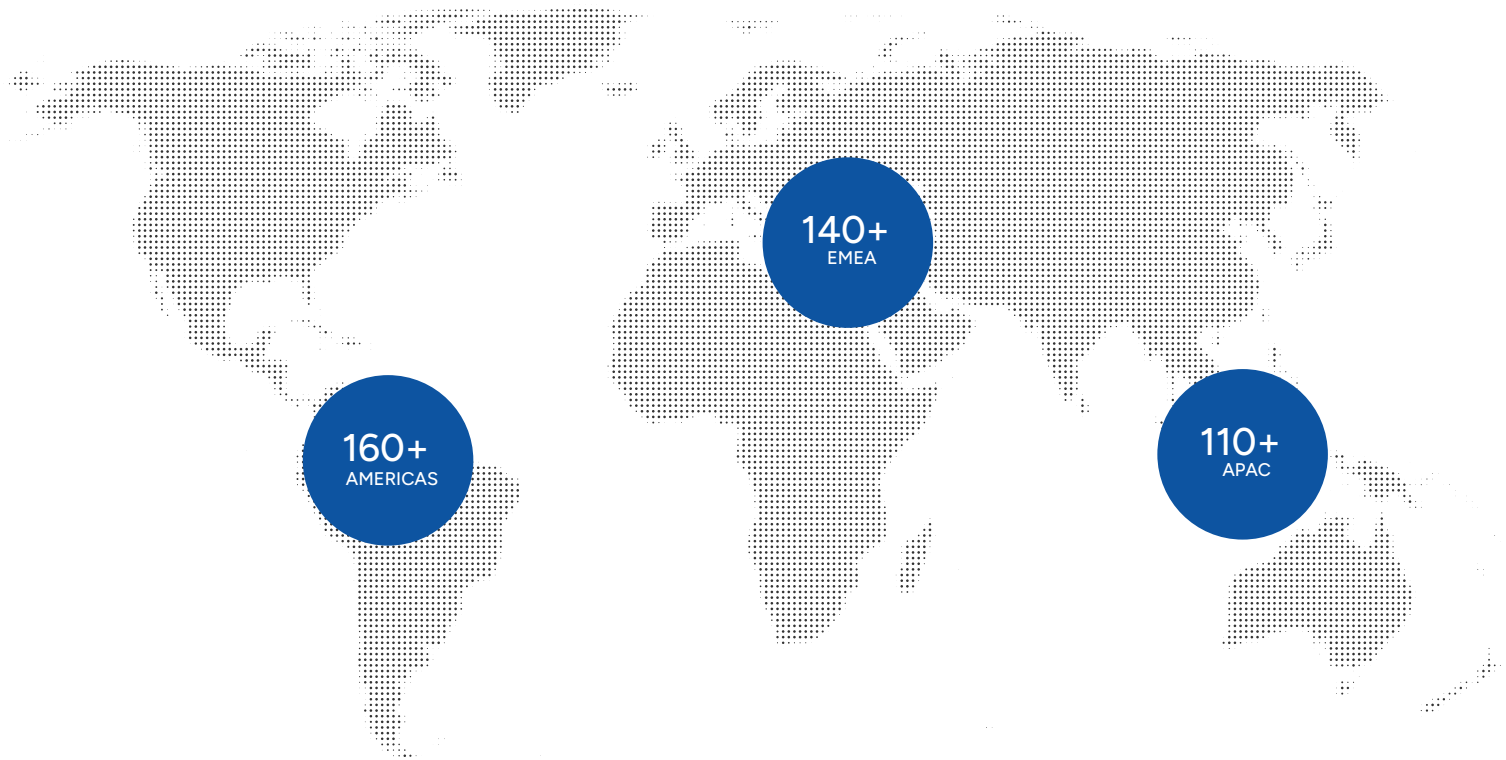


In the **PERSONAL CARE** segment, ALS brings scientific and analytical solutions for the confirmation and support of claims, which guarantee the safety and efficacy of Personal Hygiene, Perfumery and Cosmetics (HPPC) products.

Totally dedicated to the HPPC segment, the **PERSONAL CARE** division delivers results to clients in 32 countries, with the best and most reliable field solutions for decision making.

The adoption of state-of-the-art technology and innovative methodologies, together with the strength of international teams, ensure the delivery of the highest quality services using local expertise and customized solutions.

420 Sites Around the World



70+
COUNTRIES

420+
LOCATIONS

45+
YEARS

20K+
STAFF WORLDWIDE

AUD 2.58B+
GLOBAL REVENUE

Right Solutions. Right Partner.



Beauty, Personal Care and OTC Drug Tests

- ✓ Science | Technology | Claims
- ✓ Skin evaluations by trained clinicians
- ✓ Instrumental analysis
- ✓ Consumer perception
- ✓ Video testimony with real consumers | Before and After Photos | Marketing support
- ✓ Analytical Chemistry
- ✓ Microbiology



USA:
BioScreen, IRSI, Media Lab Science
and RCTS

Houston:
- ALS Global Headquarters

New York:
- Clinical Facility
- Anti-aging
- Moisturization
- Consumer Perception
- Make up Claims

Torrance:
- Clinical Facility
- Analytical Chemistry
- Microbiology
- Stability
- Toxicology

Los Angeles:
- Efficacy Studies
- Before and After Photo
- Selfie Content Creation
- Before and After Video

Irving:
- Clinical Facility
- Safety in Use
- Patch Test
- Efficacy Studies
- FDA-regulated Studies

Phoenix:
- Clinical Facility
- Anti-aging
- Hydration
- SPF

SPAIN:
Aquimisa

Salamanca:
- Quality Control of Raw Material & Finished Product
- Microbiological Control
- Stability Studies
- In vitro Test
- Review & Preparation of Dossiers

BRAZIL:
Allergisa

São Paulo:
- Exclusive Facility for studies with
Asian Population and pollution

Campinas:
- Skincare Laboratory
- Deodorant and Antiperspirant
Laboratory
- Haircare Laboratory
- SPF Laboratory
- Safety in Use
- Exclusive Unit (Patch Test)

Paulinia:
- Physico-Chemical
- Microbiology
- Safety and Efficacy in Vitro
- Consumer Studies and Sensory Tests



30+
YEARS

Est. in Brazil

45+
YEARS

Est. abroad

9
LABORATORIES

Between Brazil
and USA

5,500
(approx.)

Clinical studies
conducted every year

55,000+

People participate in
the studies every year

8,600+

Products tested
per year

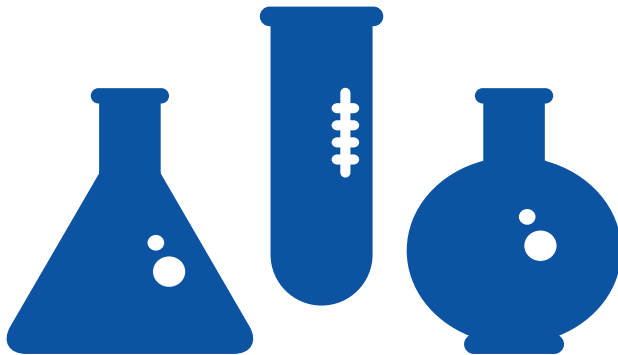
Right Solutions. Right Partner.

Safety Studies

Compatibility

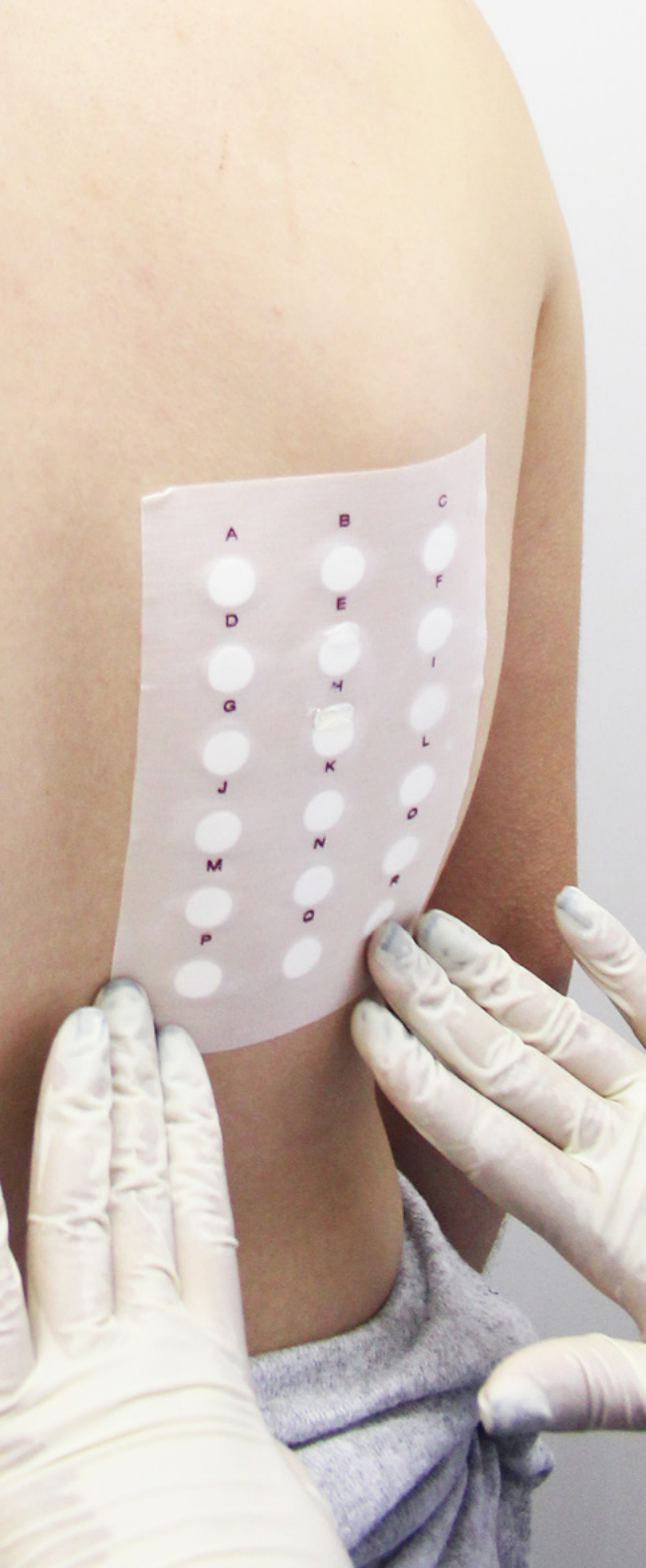
Patch Test Methods assess the potential for irritation and/or sensitization of formulations, including:

Over 7,000 tests performed each year (includes all testing)



- ✓ Weekly HRIPT Panels
- ✓ Monthly Sensitive Skin HRIPT panels
- ✓ Primary Irritation (PI)
- ✓ Cumulative Irritation
- ✓ 5, 7, 14 and 21 day (Irritation)
- ✓ Sensitization
- ✓ Photoallergy
- ✓ Phototoxicity

All HRIPT reports include a dermatologist signature as part of our value-added service, increasing your products' marketability.



Comedogenicity/ Acnegenicity - In Use

Evaluates the potential of cosmetic products to induce comedones on the face.

Comedogenicity - Follicular Biopsy

Comedogenic Potential Assessment (product's ability to cause microcomedones) through laboratory and clinical assessments.

Claims:

Non Acnegenic | Dermatologically Tested |
Noncomedogenic

Right Solutions. Right Partner.



Eye Irritation

Assessment of the eye irritation potential of products such as shampoos, conditioners and mild soaps - products for babies and children - performed by ophthalmologists after normal use or direct eye instillation.

Claims: No tears | Tear free | Does not irritate the eyes | Forced sweat - "Sports" products

Safety in Use

"Tolerance Assessment" in use to determine the potential for irritation under normal conditions of use.

Pediatric (babies, children) | Sensitive Skin | Atopic Skin | Microbiome | Genital Area | Ocular | Oral

Conducted by different medical specialties alone or together

Dermatologist | Pediatrician | Ophthalmologist | Gynecologist | Urologist | Dentist

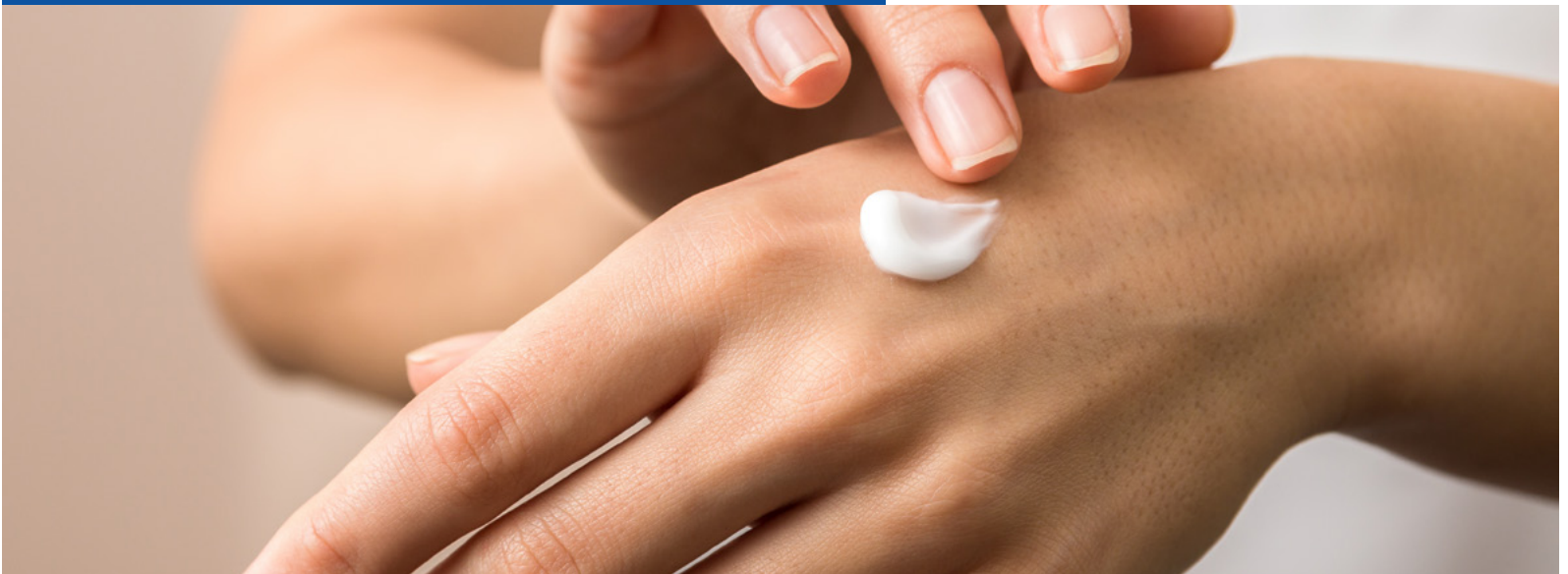


Image Analysis

Claims support in the assessment of product attributes through the interpretation of image profiles, providing subsidies that identify:

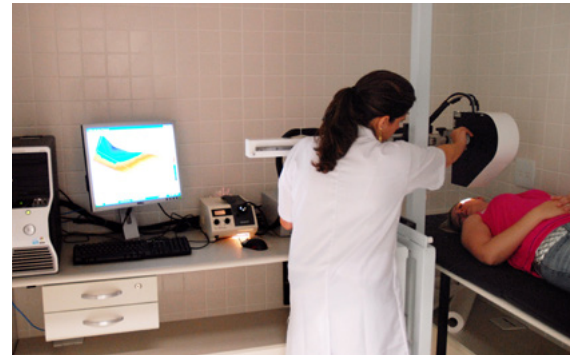
Action mechanisms of active substances

Changes in hair and skin structure

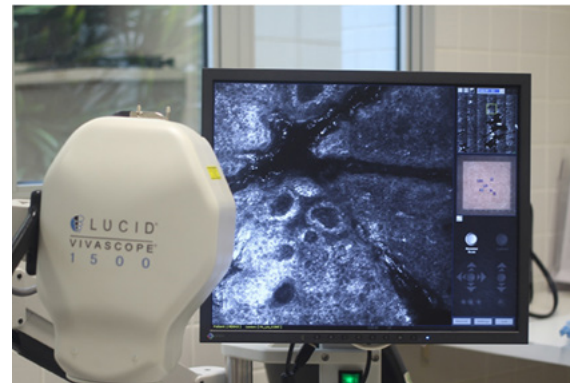
Makeup performance

Equipment

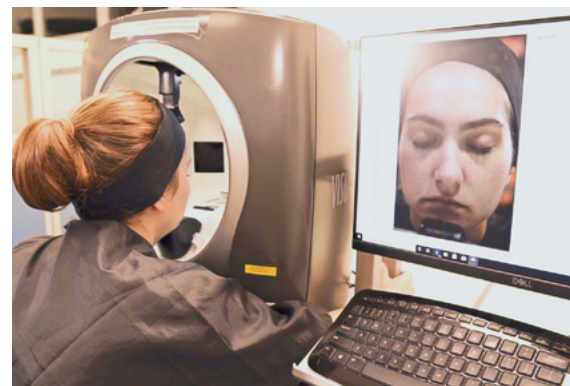
Primos Premium GFM: Produces three dimensional topographic images through a stripe's digital projection, based on digital micromirrors.



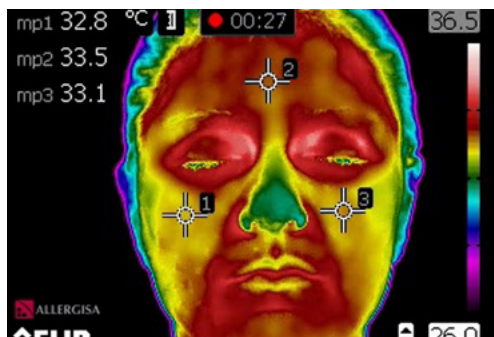
Confocal Microscopy: Allows in vivo skin analysis, in a non-invasive manner, without the need of a biopsy or conventional histological processing of the tissue, as well as the prevention of the introduction of artifacts and sample destruction, which might occur in the histological procedure.



Visia CR: Captures images using standard light 1, standard light 2, UV, crossed polarized and parallel polarized flash modalities.



Equipment



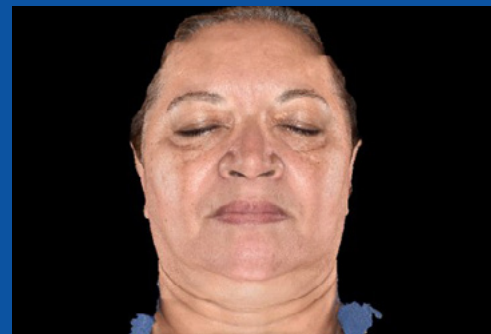
Thermography: Records the radiation emitted by the target and transforms the information into an image that is visible to the human eye, also demonstrating the soothing effect on the skin.



Visioscan: Assessment of skin texture (wrinkles and roughness), dryness and peeling through images captured with exclusive with UVA light.



Colorface: Specially designed for detailed facial skin visualization and analysis with high resolution sensor that captures extremely small face effects, multiple lighting modalities and real-time image quality control.



Quantificare: 3D photography that allows the identification of lifting effect, droopy eyelid, swelling under the eyes, neck and jaw contour.



Dermascan: Assessment of skin echogenicity and density.

Other instrumentations

- ✔ Cutometer
- ✔ Mexameter
- ✔ Corneometer
- ✔ Skicon
- ✔ Skin pH meter
- ✔ TEWL (Open Chamber and Closed Chamber)
- ✔ Tewameter – Vapometer
- ✔ Chromameter
- ✔ Sciascope
- ✔ Sebumeter
- ✔ Evaface 3D
- ✔ Dermal Phase Meter

Supported Claims

Products for the Skin: Expression Lines (Reduction) | Wrinkles Depth/Reduction/Volume/Roughness) | Spots (Amount/Intensity/Uniformity/Pigmentation) | Texture (Homogeneity) | Dark circles/Bags | Deep cleansing | Shine (Reduction/Control) | Oiliness (Matte Effect) | Pores (Depth/Size Reduction) | Acne / Blackheads

Make-up: Eyelashes (Elongation/Volume/Curvature) | Matte Effect | Durability/Long Life | Water Resistance | Sweat Resistance | Stain-Proof Clothing | Color/Tone Combination | Lip Moisturizing | Lip Volume

| Hair

Clinical Efficacy & Hair Metrology

Laboratory dedicated to the research of hair swatches and a team of specialized researchers. Through the development of specific tools to analyze the complexity of the hair fibers, the studies are scientifically based on measurements of physical and sensory properties, supporting the most diverse claims.



Analysis of Hair Fiber Integrity

Strength Test: Combability | Friction | Traction Properties | Breakage by Abrasion



Hair Fiber Image Analysis

Surface Damage Assessment | Optical Microscopy | Curls Maintenance | Smooth Effect Maintenance | Colorimetry | Surface | Salon Test | Softness | Hair Type | Elasticity

Differential Scanning Calorimetry (Thermal protection): analysis of keratin denaturation temperature and how much the products reduce or attenuate this effect.

Active Penetration Analysis by Fluorescence Microscopy: Analysis of the penetration of actives and products to support mass replacement.

Atmospheric pollution: Analysis of the effects of the main pollutants and verification of the attenuation of these effects by products.

Combability and MEV for surface damage: Tryptophan and/or alkaline solubility analysis for internal degradation.



Top 20 hair product claims in the Global Market:

1. Moisturization
2. Nourishment
3. Shine
4. Strengthen
5. Protection
6. Repairing
7. Softness
8. Reconstruction
9. Cleansing
10. Defined curly hair
11. Volume
12. Detangling
13. Straight
14. Restoration
15. Radiant color
16. Frizz control
17. Anti-frizz
18. Hair detox
19. Sealing
20. Growth

Scalp

- ✓ Dandruff Efficacy Analysis
- ✓ Fall Reduction Efficacy Analysis
- ✓ Hair Growth

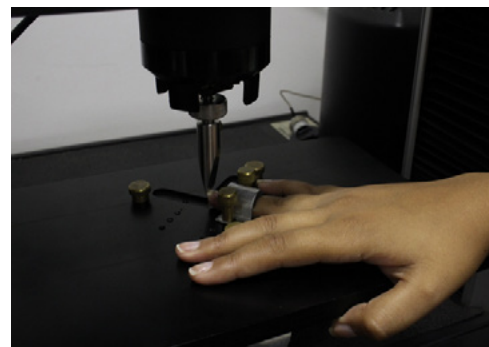
Efficacy Studies in Deodorants and Antiperspirants

Assessments performed by **ALS** follow guidelines and standards being accepted by national and international regulatory agencies for product registration. The facilities are designed with temperature and humidity control, to control environmental factors that can introduce artifacts into the data.

Claims: Lightening/Darkening | Armpit Irritation | Deodorant/antiperspirant function | Stains on clothes (white, black and colored)



Nails Clinical Studies



Expert classification.

Nail polish: duration, shine, film, small bumps, chipping, quick drying, easy to apply.

Claims: Strength | Breakage | TEWL (porosity) | Thickness | Desquamation | Dryness | Roughness/Texture

| SPF

Laboratory fully dedicated to proving claims for SPF. With its own infrastructure and team of technicians specialized in the measurement of the sun protection factor, follows the standards COLIPA, ISO 24442 (UVA in vivo) ISO 24443 (UVA in vitro) 24444 (UVB), FDA and AUSTRALIAN.



Water Resistance

Water resistance assessment following the FDA 2021 and ISO 18861/16217 methodologies. All bathtubs are individual and specially designed for Water Resistance-SPF studies and to avoid disruption of the test site.



Static SPF

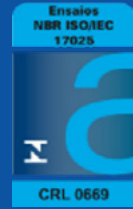
SPF determination in compliance with the methodologies FDA 2021 and ISO 24444. Total of 18 Multiport Solar Simulators (Solar Light CO) in USA and Brazil for high rate of samples throughput.





Ultraviolet Protection Factor In Fabrics

Test to determine the Ultraviolet Protection Factor (UPF) in fabrics and garments worn close to the skin, as per AS/NZS guideline 4399:2020 Sun Protection Clothing - Assessment and Classification.



In Vitro UVA-PF and Critical Wavelength

UVA Protection Factor (FP-UVA) assessment according to ISO 24443 guidelines. Critical wavelength determination test to assess broad spectrum protection, following the FDA 2021.



Surveillance

Understand how regulatory agencies work in the quality and safety of cosmetics

ANVISA is responsible for the sanitary control of all products and services in Brazil. Among its main regulations is the COSMETOVIGILANCE, defined by the Resolution-RDC No. 332, of December 1, 2005.

ALS has, since 1990, provided the Customer Service, which offers support and guidance to consumers who present adverse events, using products in the marketplace. Our procedure for collecting this information complies with local and federal privacy and security laws.

Modernization of Cosmetics Regulation Act (MoCRA)

Key terms:

- ✔ Mandatory Facility Registration
- ✔ GMP Regulations
- ✔ Responsible Person (RP)
- ✔ Product and Ingredient Listing
- ✔ Adverse Event
- ✔ Safety Substantiation
- ✔ Adverse Event Reporting
- ✔ Mandatory Recall Authority
- ✔ Records Access

The Act applies to all cosmetics manufacturers, importers, marketers, and distributors in the US. ALS provides manufacturers with detailed reports on their products and ingredients. Additionally, we can help them identify and resolve any issues that may be causing non-compliance.



Complete Science and Media Package

ALS has intensified its presence in Los Angeles, California (USA) with **Media Lab Science**, which unites science and media in one place. In a studio with high quality audiovisual production and clinical efficacy, beauty brands are validated with clinical tests, video and before & after photos, testimonials and perception with real consumers. Media Lab Science has content creation and clinical efficacy studies in the same location with an ethnically diverse population.

Science + Beauty + Media = Result

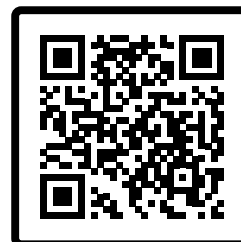
- ✓ Testimonial and B-Roll
- ✓ Consumer Perception
- ✓ Before and After Photo & Video





- ✔ Social & Digital Content
- ✔ Proof of Clinical Efficacy
- ✔ Data Interpretation

What can we do
for your brand



Media Lab Science produces content for brands alongside clinical efficacy studies. The multimedia allows consumers to see the results in digital formats.

Sensory and Consumers Studies

Sensory panels trained in the areas of food, beverages, cosmetics, personal care products, fine fragrances, paints, papers and absorbent fabrics, among others.

Sensory Panels & Product Testing |
Marketing Research | Multiple - Search
Solutions Palette | Health





Neuroscience Applied to Consumer Studies

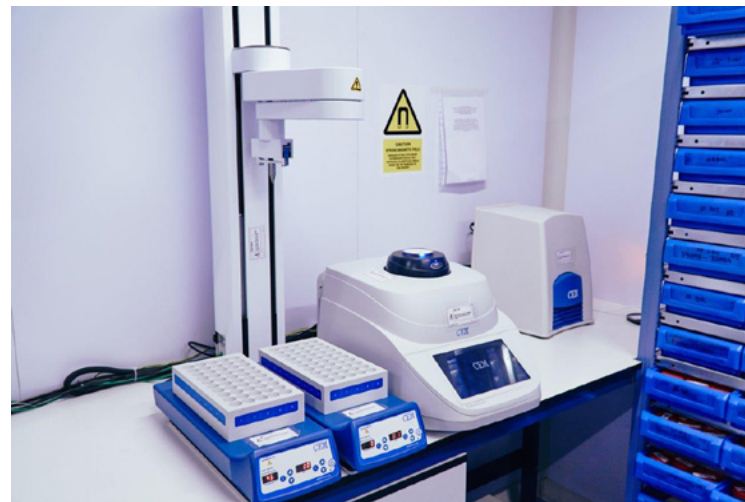
Neuroscience measures – implicitly and not rationally – emotions, behaviors and unconscious reactions. These measurements complement the learning of qualitative and quantitative study.

Implicit Association Test | Quick Pick Test | Face Coding | Eye Tracking Galvanic | Skin Response | Facial Electromyography | Electrocardiography | Electroencephalogram

Capability in Personal Care and OTC in Europe

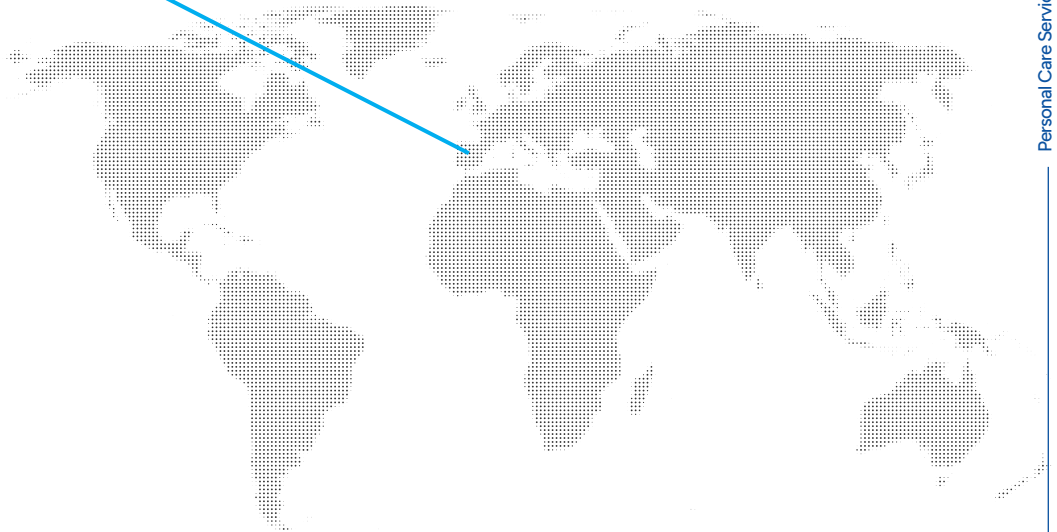


As the HPPC segment develops and expands borders, your brand can also expand your business. **ALS** has a laboratory in Salamanca, [Spain](#), offering analytical services of control and quality assurance for the pharmaceutical and cosmetic sectors, serving clients who are present in [Europe](#) or who wish to internationalize the brand.



Solutions

- Quality Control of Raw Material & Finished Product
- Microbiological Control
- Stability Studies
- In Vitro Test
- Review & Preparation of Dossiers



Certifications

- Good Laboratory Practices
- GMP certificate
 - Cosmetic Control Laboratory
 - Food Supplements Control Laboratory
- Accredited as a Laboratory
 - ENAC - ISO 17025
 - IPAC - ISO 17025
- Certified as a Laboratory
 - LRQA - ISO 9001

Physicochemical and Microbiological Analysis

Microbiological

In an increasingly competitive and demanding market, guaranteeing the quality and safety of products offered to customers has become a differential for companies.

Aerobic Plate Count & Yeast and Mold Count | Pathogen Detection | Challenge Test (USP, EP/BP, JP, PCPC, ISO) | Time Kill | Inhibition Zone | MIC/MMC Minimum Inhibitory Concentration / Minimum Microbicide Concentration) | Microbiological Dosage of Antibiotics | Micro ID | Maldi-Tof | DNA





Analytical

Development & Validation of the OTC Method | Active Ingredients Tests | Impurity Test (PROP 65 & Heavy Metals) | 1,4-Dioxane and Benzene | Stability Studies | In Vitro Skin Permeation | Dissolution Study | Raw Material Test

Certifications

- FDA registered
- DEA registered
- ISO 9001:2015 and ISO 17025 certified

Equipment

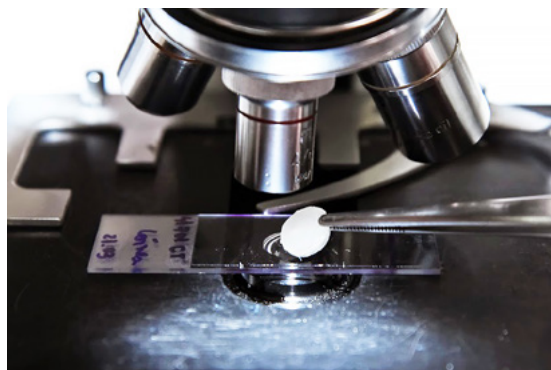
- HPLC & UPLC
- GC & GC-MS
- ICP-OES & ICP-MS
- Ion Chromatography
- UV-Vis
- Stability chambers with various conditions
- Photostability
- Laminar flow chamber
- Illumina - New generation sequencing equipment
- FTIR

| In Vitro Studies

Tests aligned with recent technological advances for the cosmetic and pharmaceutical industry in support of new claims, through alternative methods that replace the use of animals, particularly evident in models of irritation, corrosion and skin sensitization. The scientists are highly trained in the specialty to meet customer needs, using state-of-the-art technology to offer the best solutions.

Services

Systemic Toxicity | Dermal Toxicity | Eye Toxicity | Molecular Selection and Characterization | Molecular Biology | Histology and Immunohistochemistry

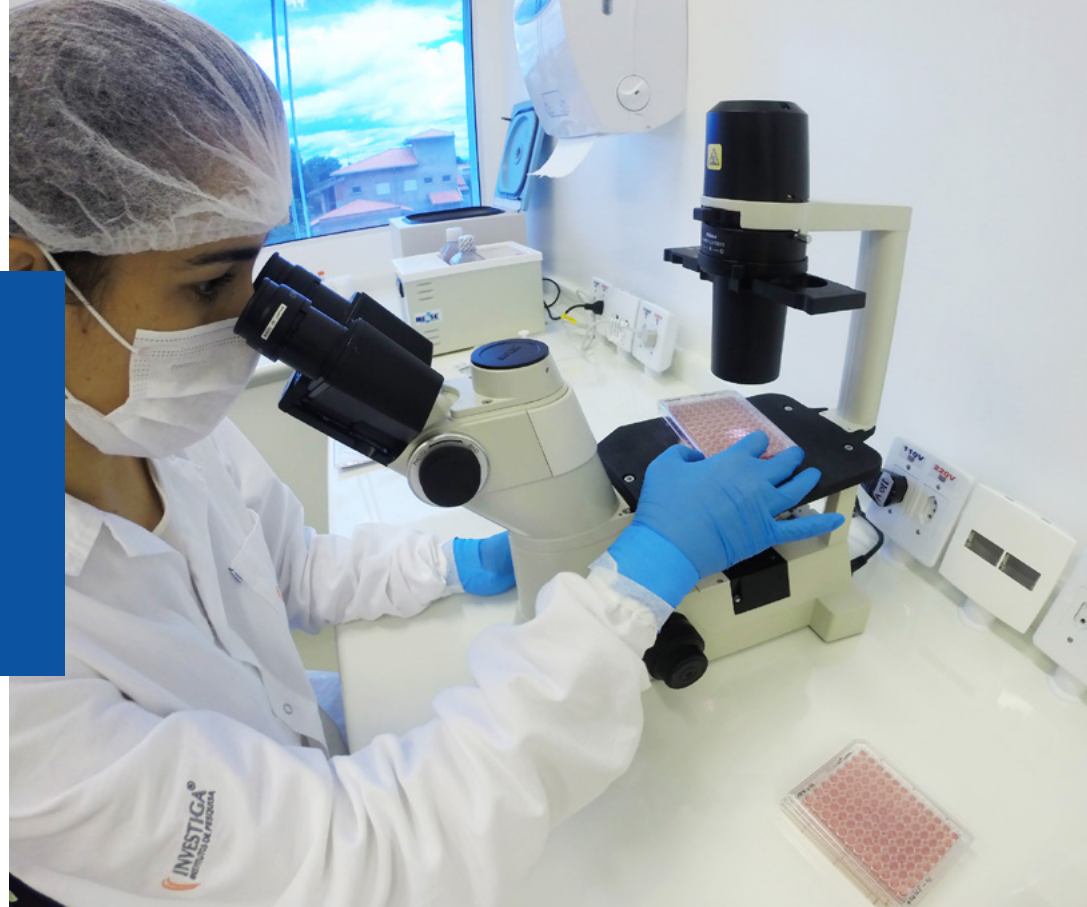


In Vitro Cosmetic Efficacy

Antioxidant Activity Tests
Enzymatic activity

Markers

Gene Expression
(Real-Time RT-PCR) |
Antioxidant activity |
Anti-inflammatory
activity | Enzyme activity |
Cure | Age Markers |
DNA Photoprotection |
Skin Whitening/Spots |
Collagen Synthesis |
Cell Regeneration | Skin
barrier | DNA Lesion
Marker | Morphology
(Immunohistochemistry) |
Customized Tests



Tissue Bioengineering

Development of In Vitro reconstituted human tissues for the safety and assessment of the efficacy of products and raw materials.

Epidermis equivalent to Episkin | Intestinal Mucosa | Vaginal Mucosa | Skin Equivalent

Client Satisfaction Monitoring

Your opinion counts

When submitting all reports of efficacy and safety studies conducted in ALS' laboratories, the clients receive the NPS (Net Promoter Score) questionnaire. Considered one of the most important key performance indicators (KPI), through NPS, it is possible to track potential problems and find suitable solutions for the needs of each client.

ALS is interested in listening to its clients and working as a key success partner. The NPS is an important tool in building the monitoring routine and valuing the opinion of those who hire the company's services.



People, Equipment And Technical Knowledge In A Single Place

When these variables intersect,
performance allows for more control
and comparability of results. Diversity
and control all in one place.

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Join the ALS team:



Spanish version



Portuguese version

