

A close-up photograph of laboratory glassware, including a beaker and test tubes, with a warm, orange-gold light reflecting off their surfaces. A thin orange rectangular frame is centered on the image, containing the title text.

# El Laboratorio Diferente

## WHO WE ARE

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DR. GOYA ANÁLISIS is a spanish laboratory that belongs to GRUPO VIRTUS.

Quality and innovation are the principal values of **DR. GOYA ANÁLISIS**, which provide professionalism, comfort and efficiency in dialogue for those companies that require the evaluation of ingredients and finished products.

We offer a full-service portfolio to respond to the needs of the Regulatory field, Quality Control, Safety and Efficacy

- In a modern space
- With a highly qualified human team
- A wide volunteer range
- The necessary technology to offer a complete service that meets all quality standards.

## OUR PURPOSE

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We support companies with a comprehensive service for the market launch of their products, conducting preclinical trials and clinical trials for safety and efficacy, with a broad base of volunteers to perform clinical evaluations.

# OUR PARTNERS

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**DR. GOYA ANÁLISIS** has two major partners for the joint marketing of its services to companies.

**ANMAR CLINICAL SERVICES**, located in Pamplona, with a large team of professionals (dermatologists, gynecologists, pediatricians, ophthalmologists and dentists) to respond to the needs of customers in the field of cosmetic product safety, agreeing each clinical study with the technical staff of the sponsoring companies, to know it in detail and propose strategies tailored to each client. Its extensive database of volunteers makes it possible to select the most suitable population for each study.

**GAIKER TECHNOLOGY CENTRE**, based in Zamudio (Vizcaya), member of Basque Research and Technology Alliance, BRTA, has carried out more than 2,300 R&D projects related to its Knowledge Areas: Biotechnology, Composites and Sustainable Functional Polymers and Recycling and Circular Economy. In addition to the R&D activity -its core business-, GAIKER offers its clients Advanced Technological Services, Analysis and Testing and Technological Dissemination Services.

Dr. **GOYA** análisis

**Gaiker**  
MEMBER OF  
BASQUE RESEARCH  
& TECHNOLOGY ALLIANCE

**anmar**  
CLINICAL SERVICES



# WHERE WE ARE

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# OUR CUSTOMERS

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+ 500 customers



4,8 / 5  
satisfaction survey



45.000 products  
tested/year





## OUR TECHNOLOGY

**Corneometer®** precise method for reproducible determination of the moisture level of the skin surface (stratum corneum).

**Sebumeter®** device for measuring the level of sebum on the surface of the skin, scalp and hair.

**Sebufix®** special foil that absorbs sebum from the skin surface due to its micropores and displays them as spots of different sizes.

When mounted on the **Visioscan®** camera, the qualitative sebum production can be uniquely monitored in real time.



**Mexameter®** tool to determine the main components responsible for skin color: melanin and hemoglobin (erythema), by reflectance.

**Cutometer®** analyzes the level of skin elasticity, flexibility/tightness, fatigue or viscoelasticity.

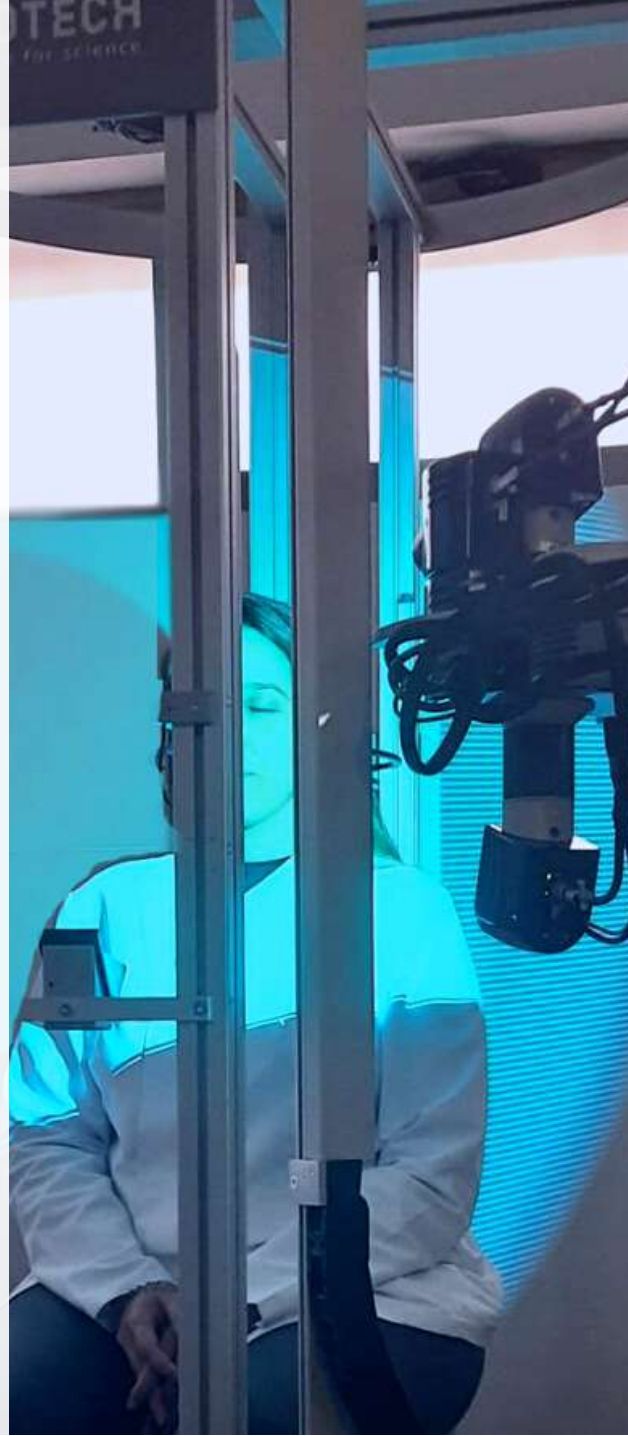
**Skin-pH-Meter®** probe for measuring the pH of the skin or scalp surface.

**Visioscan®** determines the skin surface using SELS® parameters. The images show the structure of skin and hair to characterize the surface condition of the skin and hair.

**AEVA-HE®**, high-resolution in vivo 3D biometric technology for analyzing and calculating objective parameters and evaluating changes in skin, face and body morphology, based on a patented fringe projection unit combined with active stereometry.

In conjunction with VisioHOP, with an infrared laser, 3D images are obtained, reproducible under the same conditions, before and after treatment.

**Corneofix®** determines the level of desquamation/hydration of the stratum corneum, in particular the number, size and thickness of corneocytes (dead cell scales). When mounted on the Visioscan® camera the desquamation can be evaluated by its software.



## OUR TECHNOLOGY

**MoistureMap**, tool to determine near-surface moisture distribution and skin microtopography.

**Visiopor®** to visualize fluorescent acne lesions in an area, indicating the presence of *C. acnes* bacteria in follicular lesions, microcomedones, comedones, papules and pustules).

**Colorimeter®** cl 400 colorimeter specifically measures skin and hair color. The measured values are expressed as coordinates in the color space  $L^*a^*b^*$ .

**VisioFace®**, a tool for taking full-face photographs of the highest resolution.

**22 MHz ultrascan**, method that reproducibly measures skin thickness and density in vivo.

# OUR SERVICES

## COSMETICS

### PRECLINICAL TRIALS

R&D and QUALITY CONTROL  
SERVICES FOR PLACING ON THE MARKET  
*IN VITRO* TEST

### CLINICAL TRIALS

*IN VIVO* SAFETY TESTS  
*IN VIVO* EFFICACY TESTS  
*IN VITRO/EX VIVO* EFFICACY TEST

## MEDICAL DEVICES

### PRECLINICAL TRIALS

R&D and QUALITY CONTROL  
SERVICES FOR PLACING ON THE MARKET  
*IN VITRO* TEST

### CLINICAL TRIALS

*IN VIVO* EFFICACY TESTS  
*IN VITRO/EX VIVO* EFFICACY TEST

## FOOD SUPPLEMENTS

### PRECLINICAL TRIALS

R&D and QUALITY CONTROL  
SERVICES FOR PLACING ON THE MARKET  
*IN VITRO* TEST

### CLINICAL TRIALS

*IN VIVO* EFFICACY TESTS  
*IN VITRO/EX VIVO* EFFICACY TEST



# FACILITIES

Dr. GOYA análisis





FACILITIES







# FACILITIES

Gaiker

MEMBER OF  
BASQUE RESEARCH  
& TECHNOLOGY ALLIANCE



COSMETICS



PRECLINICAL TRIALS

## R&D and QUALITY CONTROL

### MICROBIOLOGICAL TESTS

- Total viable microorganisms count.
- Pathogen detection: *Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Candida albicans*, *Burkholderia cepacia*.
- Bacterial identification by means of VITEK.

### PHYSICOCHEMICAL TESTS

- Organoleptic characteristics, pH, density, viscosity, peroxides index, peroxidic index, pH, density, viscosity, viscosity, peroxidic index of peroxides, acidity index, humidity, dry residue.
- Water activity.
- Preservative studies.
- Metal studies.

### AUTOMATED STABILITY TEST

Early detection of physical instabilities by phase separation, only for emulsions.

- Suitable/Unsuitable stability: 3-month simulation at 40°C.
- Shelf life stability: 36 months simulation at 25°C.

### MARKET ACCESS SERVICES

### CHALLENGE TEST OR PRESERVATIVE EFFICACY STUDY

- Performed according to ISO 11930:2012 or Pharmacopoeia.
- Possibility of "in house" pathogens and re-inoculation.





## STABILITY AND COMPATIBILITY

Our climatic chambers, with controlled humidity and temperature, allow us to design stability studies according to ICH guidelines and based on laboratory experience.

- **ACCELERATED STABILITY:** predicts the estimated shelf life of the sample. It is essential to perform in parallel a real stability.
- **LONG-TERM STABILITY:** performed for 2-3 years, although this period can be extended.
- **PHOTOSTABILITY:** performed on new formulations or new active ingredients in order to demonstrate that the product is not altered when exposed to light.
- **STABILITY IN USE:** to be consulted.

## WE OFFER OUR CUSTOMERS:

- Advice on the design of stability studies.
- Preservation of samples under controlled conditions.
- Control of the critical parameters of the stored products according to the established sampling plan.
- Preparation of the final report of the stability study with an evaluation of the data obtained, proposing a specific shelf life for each product according to the results obtained during the test.



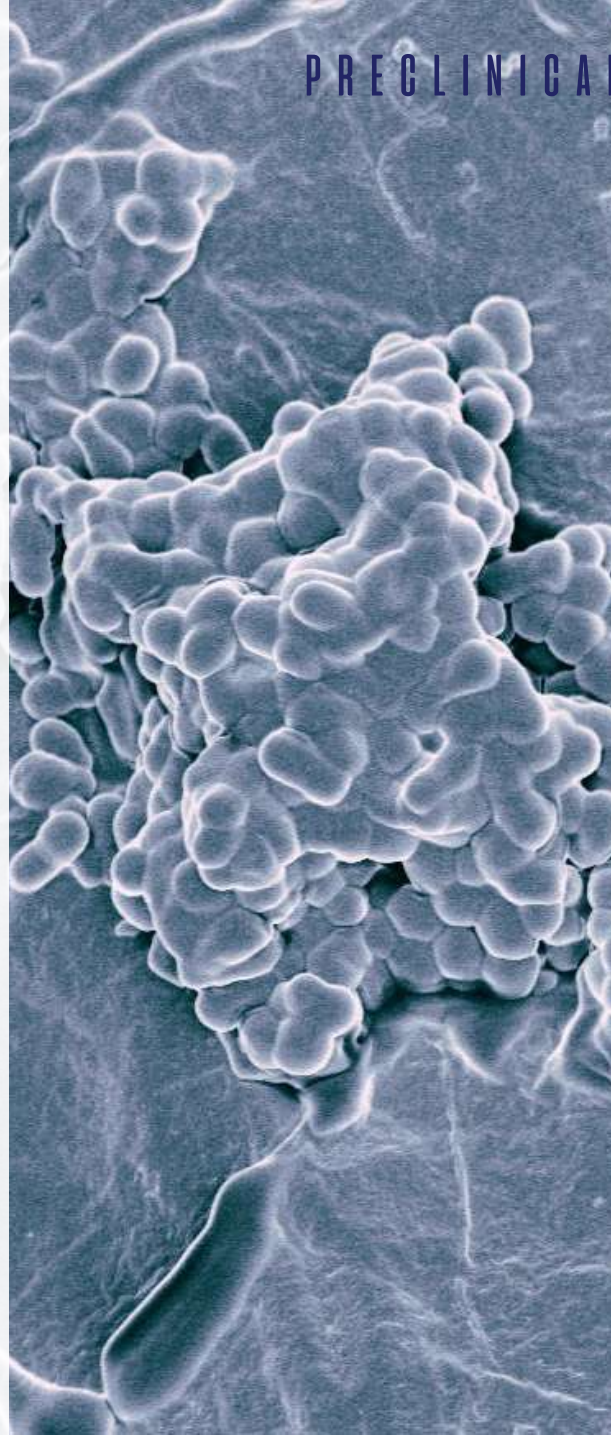
## IN VITRO TEST

### EXPOSURE

Skin absorption OECD 428  
ADME studies

### TOXICOLOGICAL STUDIES

- Skin irritation OECD 439.
- Skin corrosion OECD 431, OECD 435.
- Skin sensitization OECD 442C, 442D, 442E.
- Eye irritation OECD 492, Het-Cam.
- Nasal irritation



- Oral, gingival and vaginal irritation.
- Mutagenicity and genotoxicity.
  - Ames test OECD 471.
  - Micronucleus test OECD 487.
  - Gene mutation test in mammalian cells OECD 476.
- Phototoxicity OECD 432.
- Cytotoxicity ISO 10993-5
- Endocrine disruption OECD 455
- Nanotoxicology

### MICROBIOLOGICAL SAFETY

COSMETICS



CLINICAL TRIALS



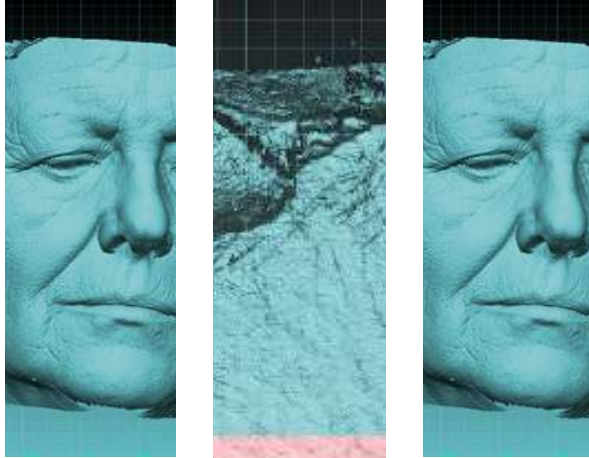


# IN VIVO SAFETY TESTS

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## COSMETICS

- Patch test
- Open test (ROAT)
- Use Test
- HRIPT
- Stinging test
- Strip Patch test
- Photopatch test



# IN VIVO EFFICACY TESTS

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## COSMETICS AND NUTRICOSMETICS

Skin Care  
Body care  
Oral care  
Hair care  
Babies & kids  
Makeup  
Borderline products



## SKIN MICROBIOME

- Microbiome friendly
- Balancing and protecting the skin microbiome

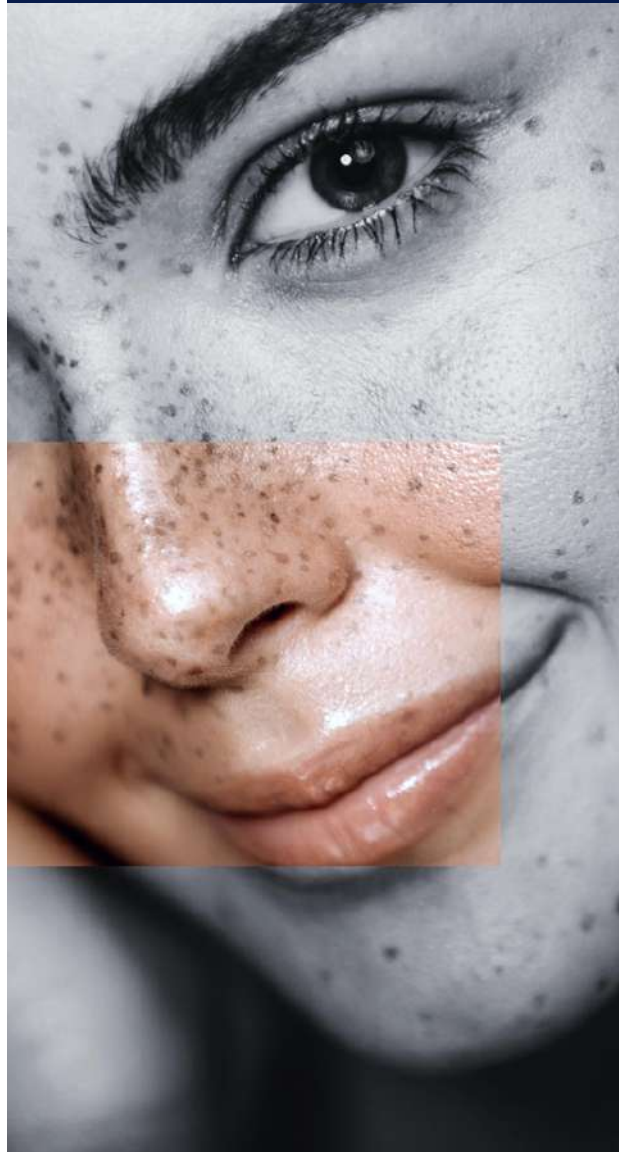
## ANTI-AGING

- Anti-wrinkle efficacy
- Firming effect
- Short- and long-term
- Skin thickening (collagen and elastin)
- Structure of the skin surface
- Treatment for dark circles and puffiness

## FIRMNESS

- Firming effect
- Treatment for skin fatigue and sagging skin

# SKIN CARE



- Elasticity effect
- Lifting effect

## DEPIGMENTING

- Depigmenting effect
- Anti-redness effect
- Improved radiance and skin tone
- Brightening effect

## DERMOPROTECTIVE AND REGENERATING

Restores, protects and maintains the skin's barrier function.

## OILY SKIN

- Sebum-regulating effect
- Astringent effect
- Mattifying effect
- Non-comedogenic efficacy

# BODY CARE

## SKIN MICROBIOME

- Friendly microbiome
- Balancing and protection of the skin microbiome

## FIRMING AND SLIMMING

- Anti-cellulite and slimming effect
- Firming effect
- Anti-stretch marks efficacy

## DEPIGMENTING

- Depigmenting effect
- Brightness and luminosity effect of the skin

## DERMOPROTECTIVE AND REGENERATOR

- Restores, protects and maintains



la barrier function of the skin

- Short and long term hydration

## DEODORANTS

- Deodorant effect (armpits and feet)
- Moisturizing effect
- Anti-irritation effect
- Anti-yellow and white stains effect on textiles

## TATOOS

- Moisturizing
- Skin barrier effect
- Skin protection
- Color protection

# ORAL CARE

## SKIN MICROBIOME CLAIMS

- Microbiome friendly
- Balancing and protecting the skin microbiome

## SENSITIVENESS

- Efficacy against sensitive teeth and gums
- Air and tactile jet
- Cold stimulus

## HALITOSIS

- Bad breath analysis by OralChroma
- BANA Test

## ANTI-PLAQUE & GINGIVITIS

- Efficacy against dental plaque
- Bleeding score

## TEETH BLEACHING

- Instant whitening effect
- Stains removal efficacy



# HAIR CARE

## OILY AND ANTI-DANDRUFF HAIR

- Sebo-regulating effect
- Gloss effect
- Anti-dandruff
- Color protection

## HAIR GROWTH

- Hair growth
- Anti-hair loss and strengthening
- Styling test



# BABIES AND KIDS

- Short and long term moisturizing/hidrating effect
- Dermoprotective effect
- No tears
- Anti-eruptions and itching (diaper cream)
- Atopic tendency

# MAKE UP

## MAKE UP

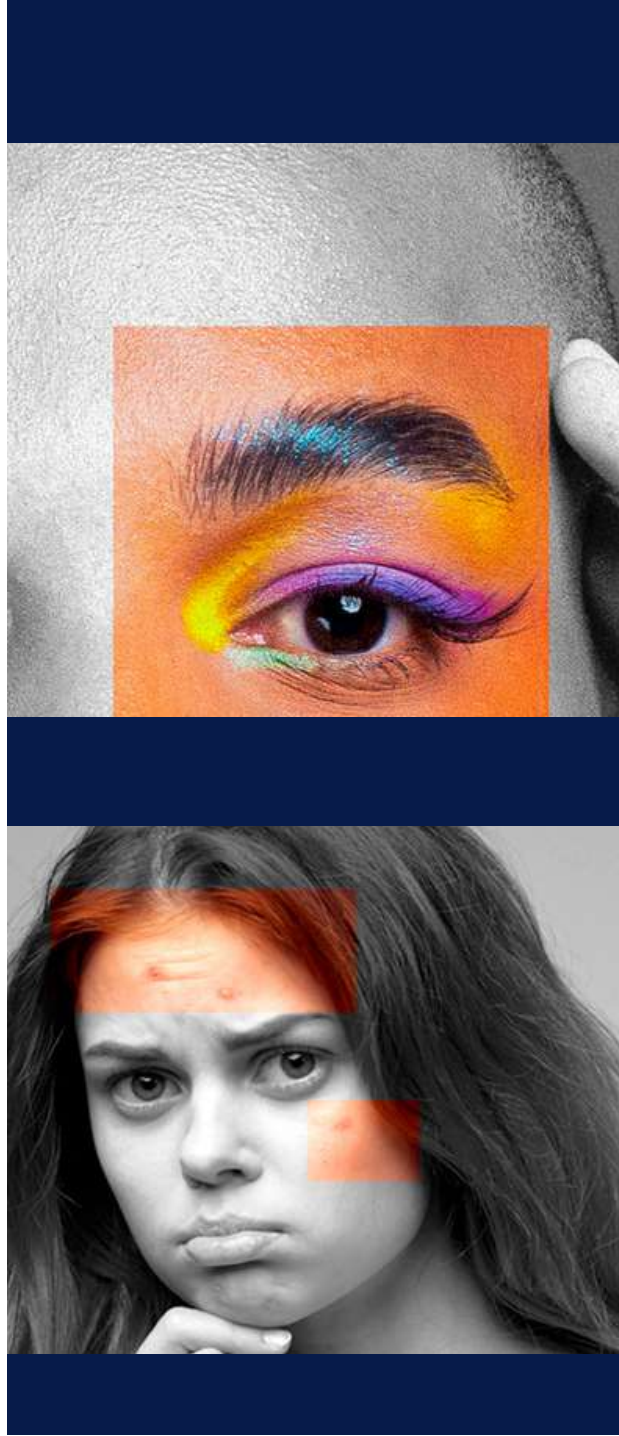
- Long lasting
- Coverage
- Matte effect
- Waterproof
- Sweatproof/resistant

## EYE LASHES & EYEBROWS

- Lengthening effect
- Volume and extra-volume effect
- Waterproof
- Sweatproof/resistant

## LIPSTICKS

- Long lasting
- Gloss effect
- Volume effect
- Repairing effect
- Anti-stain



# BORDERLINE PRODUCTS

## COSMETIC & NUTRACOSMETIC PRODUCTS FOR:

- Pregnancy and post partum
- Atopic dermatitis
- Acne
- Rosacea
- Psoriasis
- Couperose
- Female genital hydration
- Ocular hygiene
- Skin patches-iontophoresis
- Sports products
- Products for bruises
- Tired legs
- Sexual activity
- Others



# MEDICAL DEVICES AND FOOD SUPPLEMENTS



## PRECLINICAL TRIALS

## R&D – QUALITY CONTROL

### MICROBIOLOGICAL TESTS

- Sterility test according to ISO 11737-2 or Pharmacopoeia.
- Determination of the population of microorganisms in products (Bioburden) according to ISO 11737-1.
- Determination of the population of microorganisms in the products (Bioburden) in masks according to UNE-EN 14683.
- Determination of the population of microorganisms in products (Bioburden) in surgical drapes and gowns according to UNE-EN 13795-1.
- Bacterial identification by means of VITEK.

### PHYSICAL-CHEMICAL TESTS

- Organoleptic characteristics, PH, density, viscosity, peroxide value, acid value, moisture, dry residue.
- Water activity.
- Preservative studies
- Metal studie



## R&D – QUALITY CONTROL

### MICROBIOLOGICAL TESTS

- Aerobic, enterobacterial, mold and yeast counts
- Identification of *Escherichia coli*
- Identification of *Staphylococcus aureus*
- Identification of *Salmonella*
- Identification of *Listeria monocytogenes* and *Listeria spp*
- Identification of *Pseudomonas aeruginosa*
- Bacterial identification by VITEK

### PHYSICAL-CHEMICAL TESTS

- Organoleptic characteristics, Ph, density, viscosity, peroxide value, acid value, moisture, dry residue
- Water activity
- Preservative studies
- Studies of metals
- Lactose and gluten studies
- Vitamin studies
- Polycyclic aromatic hydrocarbons
- Others

# PRECLINICAL TRIALS / MEDICAL DEVICES AND FOOD SUPPLEMENTS

## MARKET ACCESS SERVICES

### CHALLENGE TEST OR STUDY OF PRESERVATIVE EFFICACY

- Performed according to Pharmacopoeia.
- Possibility of "in house" pathogens and re-inoculation.

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## IN VITRO TEST

### BIOCOMPATIBILITY ISO 10993

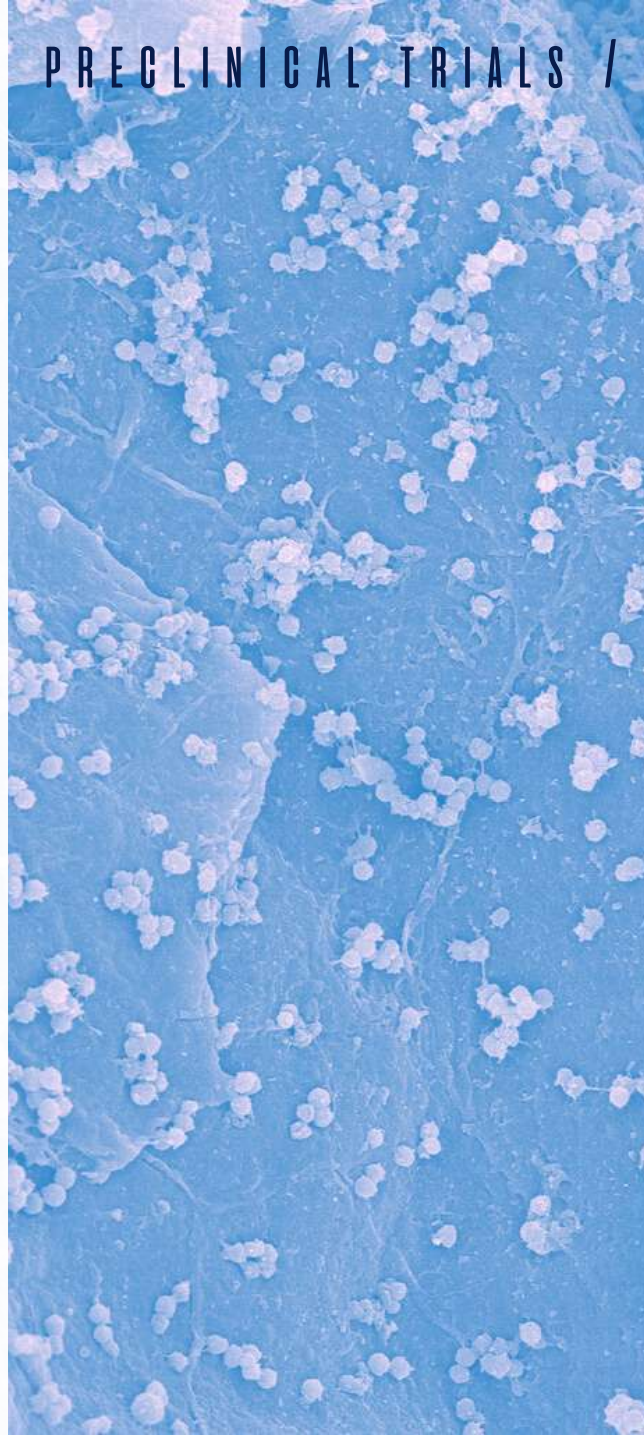
- Skin absorption OECD 428
- ADME studies

### TOXICOLOGY STUDIES

- Skin Irritation OECD 439.
- Skin corrosion OECD 431, OECD 435.
- Skin sensitisation OECD 442C, 442D, 442E
- Eye irritation OECD 492, Het-Cam

- Nasal irritation
- Oral, gingival, vaginal irritation
- Mutagenicity and genotoxicity
  - Ames test OECD 471.
  - Micronucleus test OECD 487
  - In Vitro Mammalian Cell Gene Mutation Test OECD 476
- Phototoxicity OECD 432
- Cytotoxicity ISO 10993-5
- Endocrine disruption OECD 455
- Nanotoxicology

### MICROBIOLOGICAL SAFETY





MEDICAL DEVICES AND  
FOOD SUPPLEMENTS



PRECLINICAL TRIALS



# IN VIVO EFFICACY TEST

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## MEDICAL DEVICES AND FOOD SUPPLEMENTS

### DERMATOLOGY/COSMETIC MEDICINE

Fillers/Fillers  
Peelings/Dermabrasions  
Acne  
Atopic Dermatitis  
Rosacea  
Couperose  
Keratosis  
Psoriasis  
Eczema  
Scars/Wounds  
Hyperhidrosis  
Hyperpigmentation

### GYNECOLOGY AND OBSTETRICS

Fertility  
Vaginitis/Vaginosis  
Intimate Lubricants  
Menopause/Dysmenorrhea



# IN VIVO EFFICACY TEST

## MEDICAL DEVICES AND FOOD SUPPLEMENTS

### OTORHINOLARYNGOLOGY

Rhinitis  
Sinusitis  
Fibrosis/Bronchiectasis  
Nasal dryness  
Otitis

### ORAL

Post-surgery healing  
Halitosis  
Gingivitis  
Periodontitis  
Aphthous ulcers  
Herpes  
Dental adhesives  
Irritable Bowel Syndrome (IBS)



# IN VIVO EFFICACY TEST

COSMETICS. MEDICAL DEVICES

FOOD SUPPLEMENTS

## OFTALMOLOGY

Conjunctivitis

Blepharitis

Dry eye syndrome

## TRAUMATOLOGIA/PHYSIOTHERAPY/SPORTS

Arthrosis

Gonarthrosis

Osteoarthritis

Chondromalacia patellae

Cartilage lesions or ulcers

Osteochondritis

Tendinitis

Chondropathy

Fibrosis

Bursitis

Capsulitis

Fasciitis



# IN VITRO/EX VIVO EFFICACY TEST

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COSMETICS

MEDICAL DEVICES

FOOD SUPPLEMENTS





# IN VITRO/EX VIVO EFFICACY TEST

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COSMETICS. MEDICAL DEVICES  
FOOD SUPPLEMENTS

Confocal and electron microscopy (SEM)  
Cell cultures  
3D Models  
Biopsies and explants

- Skin Care
- Body care
- Oral care
- Hair care
- Others

# SKIN CARE

## SKIN MICROBIOME CLAIMS

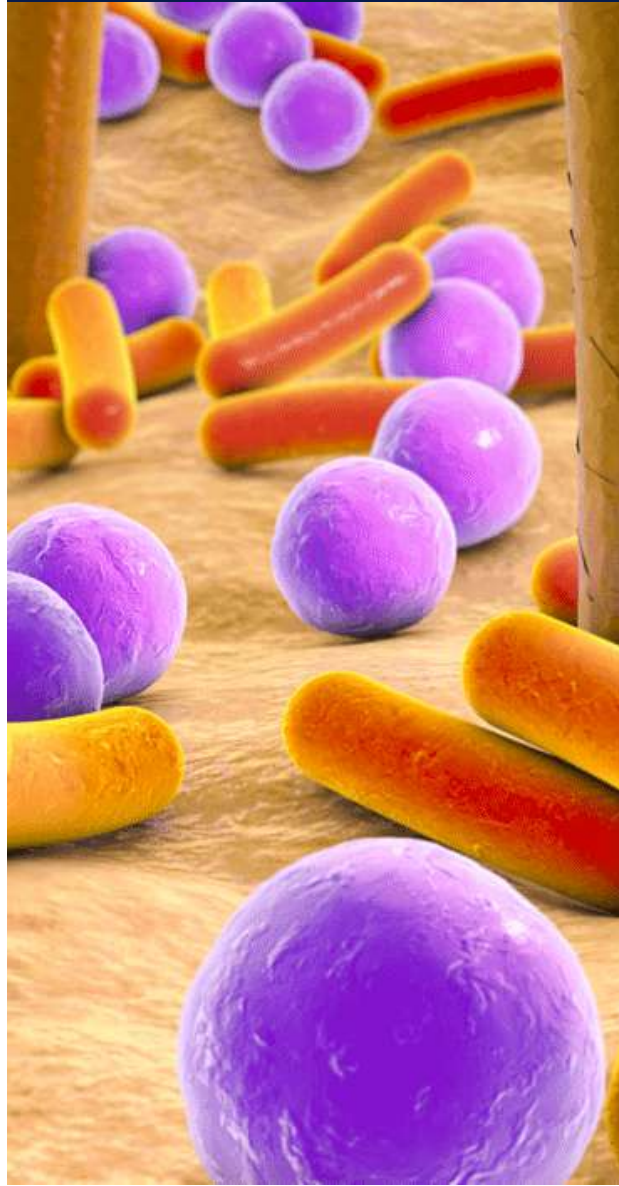
- Microbiome friendly
- Balancing and protecting the skin microbiome

## IN VITRO/EX VIVO ANTI-AGING

- Anti-wrinkle efficacy cell proliferation and viability
- Antioxidant efficacy: ROS, DPPH, etc.
- Photoaging after UV radiation
- Hyaluronic acid synthesis

## IN VITRO/EX VIVO FIRMNESS

- Collagen and elastin synthesis
- Hyaluronic acid synthesis



## IN VITRO/EX VIVO DEPIGMENTING

- Skin whitening:
  - Melanin production
  - Tyrosinase inhibition

## IN VITRO/EX VIVO REGENERATING AND DERMOPROTECTIVE

- Microbial efficacy:
  - Maintenance of the natural flora
  - Anti-acne product
- Repairing efficacy
- Photoprotective efficacy
- Antioxidant efficacy
- Anti-pollution efficacy
- Effectiveness against blue light (LED): MTT and ROS
- Anti-inflammatory efficacy

# BODY CARE

## *IN VITRO/EX VIVO SKIN MICROBIOME CLAIMS*

- Microbiome friendly
- Balancing and protecting the skin microbiome

## *IN VITRO/EX VIVO FIRMNESS AND SLIMMING*

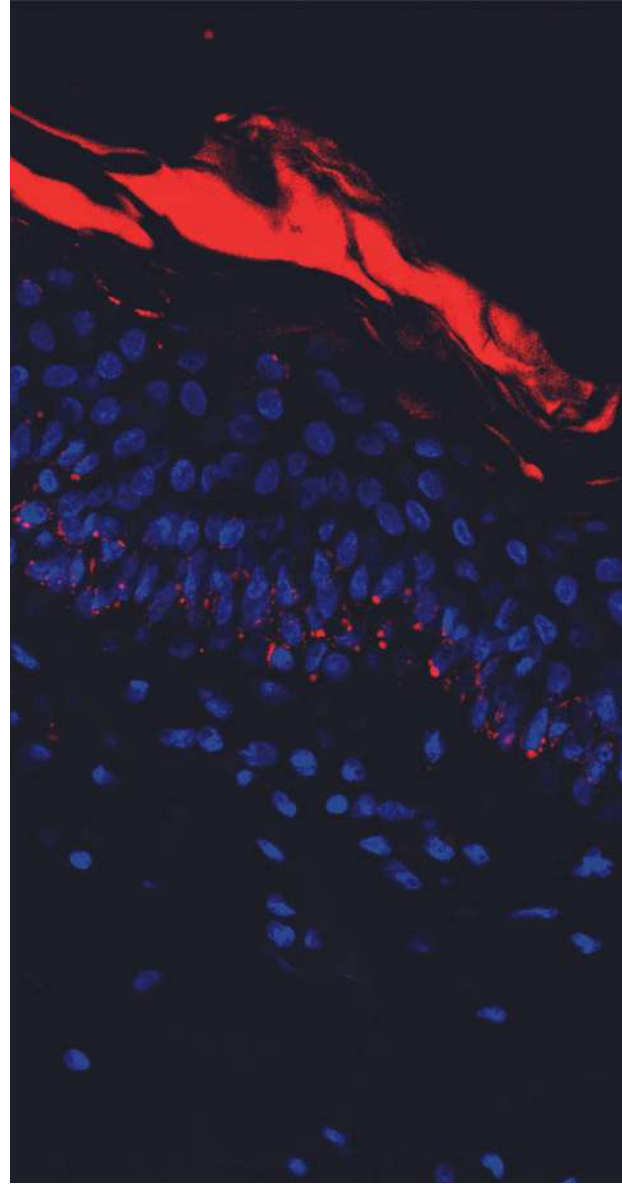
- Collagen and elastin synthesis
- Lipolytic efficacy
- Lipogenesis effect

## *IN VITRO/EX VIVO DEPIGMENTING*

- Skin whitening:
  - Melanin production
  - Tyrosinase inhibition

## *IN VITRO/EX VIVO REGENERATING AND DERMOPROTECTIVE*

- Anti-stretch mark and healing efficacy
- Antioxidant and anti-pollution efficacy
- Anti-inflammatory efficacy
- Repairing and photoprotective effect



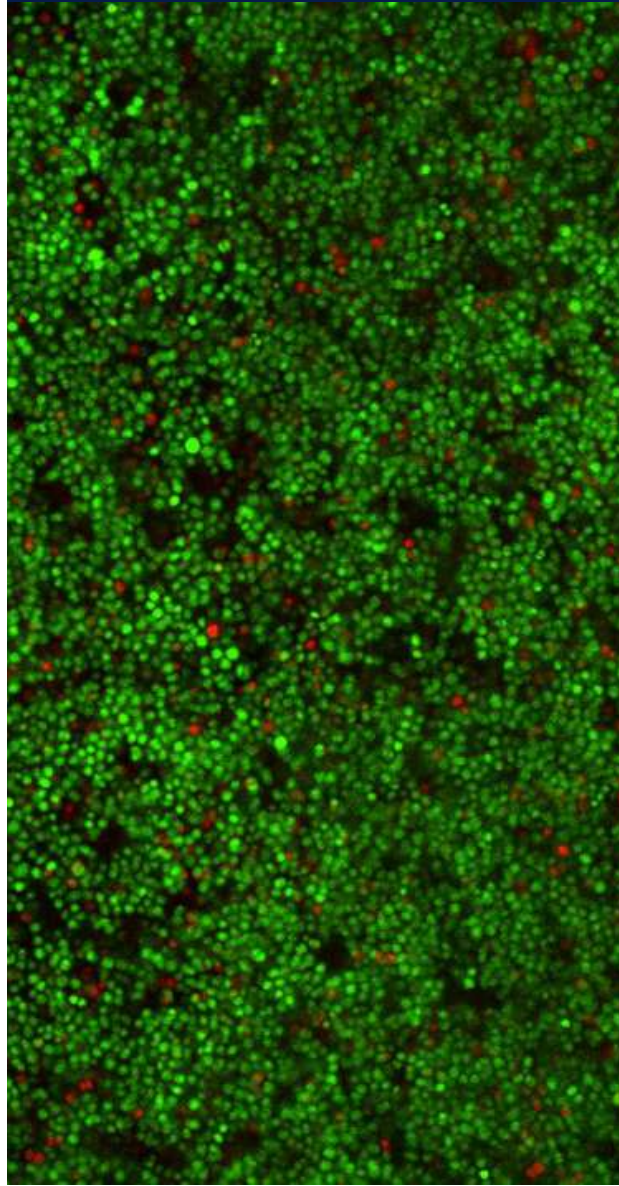
# ORAL CARE

## IN VITRO/EX VIVO SKIN MICROBIOME CLAIMS

- Study of non-pathogenic microorganisms beneficial for oral care
- Action/Inhibition of specific pathogens
- Action on the microbiome for specific disease treatments

## IN VITRO/EX VIVO TEST

- Inhibitory efficacy of odor emission synthesis (VSC) caused by bacteria
- Efficacy in oral biofilm against plaque agents



- Efficacy in suspension against plaque agents
- Inhibitory action against etiological agents in periodontal diseases
- Inhibition studies of caries-causing microorganisms

## IN VITRO/EX VIVO PROTECTION AND DEFENSE

- Irritation potential in reconstructed oral tissue



# HAIR CARE

- Antimicrobial action against dandruff-causing microorganisms
- Dermal papilla cells (HFDPC)
- Antioxidant action
- Repairing and photoprotective efficacy
- Anti-pollution efficacy
- Synthesis of hyaluronic acid, collagen and elastin in human follicle dermal papilla cells (HFDPC)

- Irritation of reconstructed dermal tissue and Human Follicle Dermal Papilla Cells (HFDPC)
- Other

WE ARE SPECIALISTS IN  
AD-HOC DESIGNS AND  
SPECIFIC PROJECTS

CONTACT US



# WHY US?

Proximity to the customers

Hability to adapt protocols and services to each of them

Orientation and assessment that transcends the mere analysis and issuance reports



Innovation of equipment and processes, to meet customer needs in a market that is now evolving more than ever

Constant search of excellence

# CONTACT

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