

Dermocosmetic Laboratory Testing: Molecular and clinical

Claims substantiation and R&D marketing support

Test & Trust

DERMA CLAIM

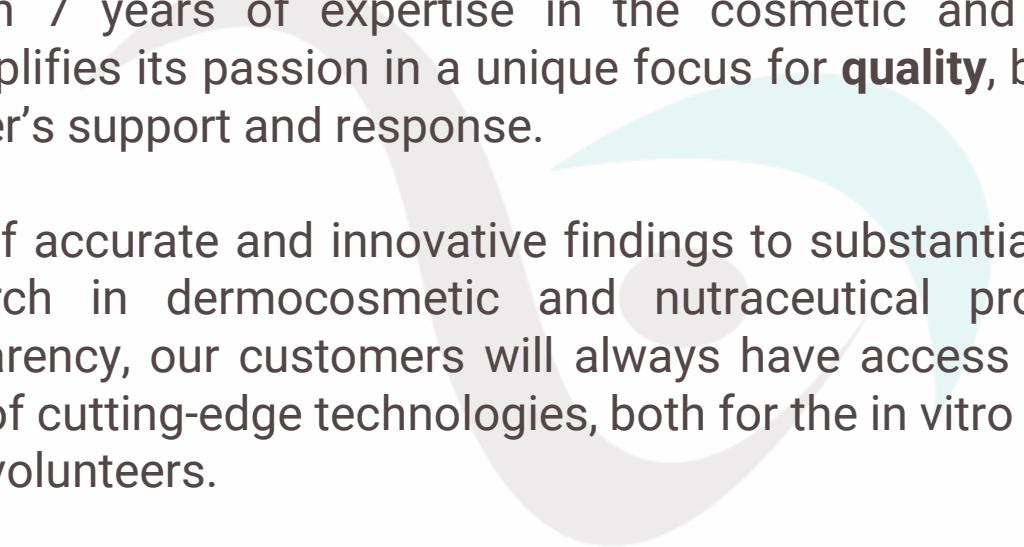
Test & Trust





Dermaclaim Lab S.L. is a biotech laboratory focused on the study of the skin and the **testing of dermocosmetic** and nutraceutical products. We provide you R&D testing and counseling at the same time, thinking always in your marketing needs.

Dermaclaim wants to be your “**Test & Trust**” partner for in vitro and clinical testing.

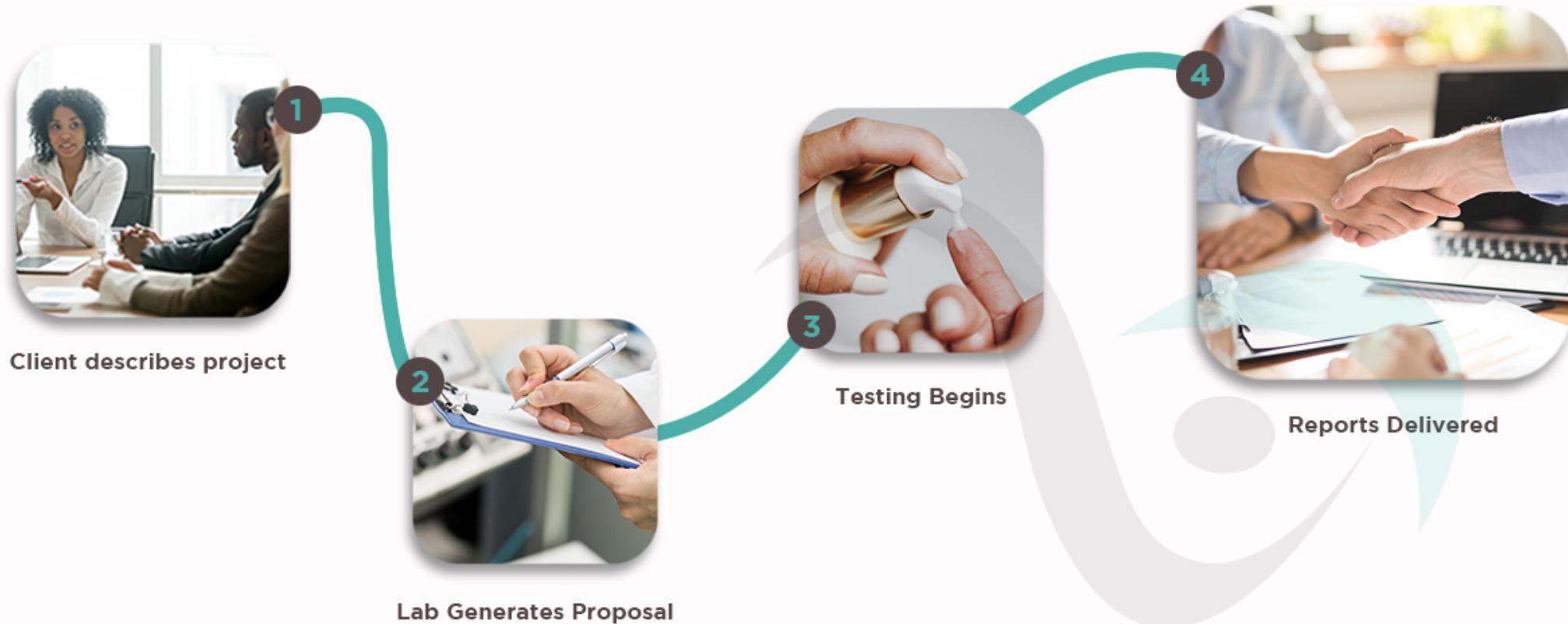


The company was born from the desire to provide the **most reliable** testing service, based on our passion for excellence, after more than 7 years of expertise in the cosmetic and food-nutraceutical business. Dermaclaim exemplifies its passion in a unique focus for **quality**, both in our laboratory services as well as customer's support and response.

Our **mission** is to ensure the generation of accurate and innovative findings to substantiate the marketing **claims**, focusing our research in dermocosmetic and nutraceutical products development. We will provide full transparency, our customers will always have access to the complete raw data, and we will make use of cutting-edge technologies, both for the in vitro bioassays and the clinical trials in human volunteers.

Dermaclaim, Test & Trust.

Dermacclaim provides **reliable, fast, and cost-effective** testing



14 REASONS TO TRUST DERMACLAIM

- ✓ **Customer support** in a comfort, close and quality manner.
- ✓ **Fast response** to any query in less than 24 hours.
- ✓ Scientific **quality** focused on your **marketing**.
- ✓ **Full transparency** (complete access to raw data).
- ✓ Access to the **latest equipment** and cutting-edge technologies.
- ✓ Improved technical **conditions** of study.
- ✓ Special focus on the panel **recruitment**.
- ✓ Location in the **University of Valencia's Science Park**.
- ✓ **Affordable prices**.
- ✓ Thorough final complete **report**.
- ✓ R&D **collaborations** with public and private organisms.
- ✓ **Flexibility** and custom-made studies.
- ✓ Scientific and market **know-how**.
- ✓ Led by **passionate** experts.



Laboratory facilities for in vitro testing

Our laboratory is located in the **University of Valencia's Science Park (PCUV)** and the **Central Support Service for the Experimental Research (SCSIE)**, which allow us to use the latest technologies.

 Confocal Microscopy

 Cell Culture

 Flow Cytometry

 Mass Spectrometry

 Genomics

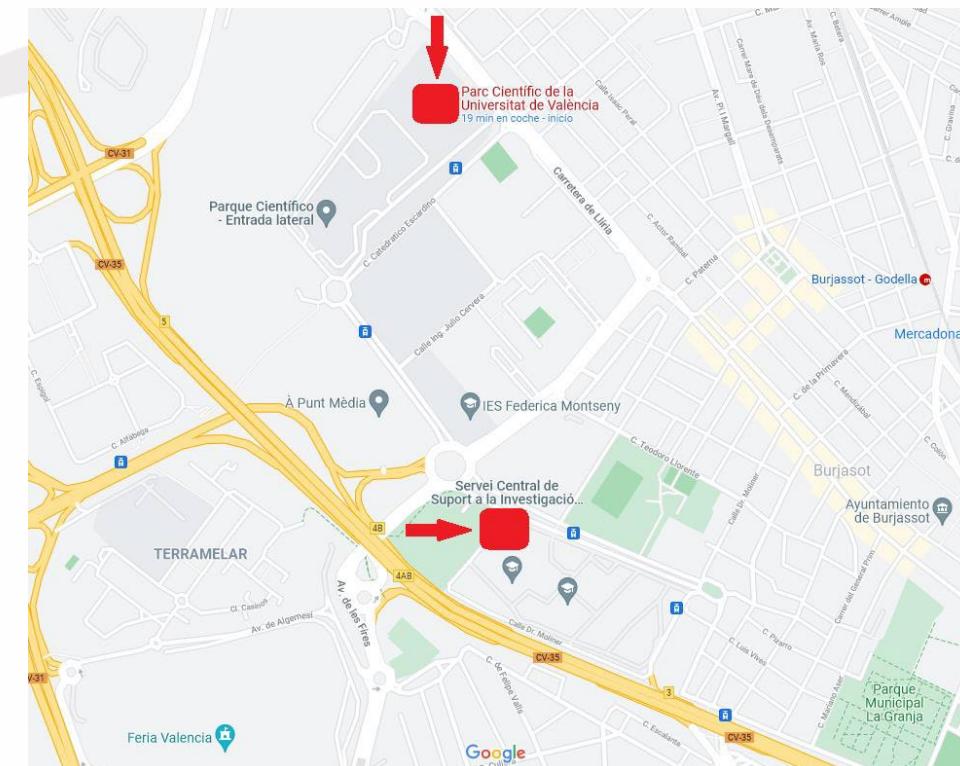
 Proteomics

 NMR

 Atomic Spectroscopy

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Calle Catedrático Agustín Escardino, 9
46980 Paterna, Valencia (España)

Servei Central de Suport a la Investigació Experimental
Calle Doctor Moliner, 50
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FACILITIES

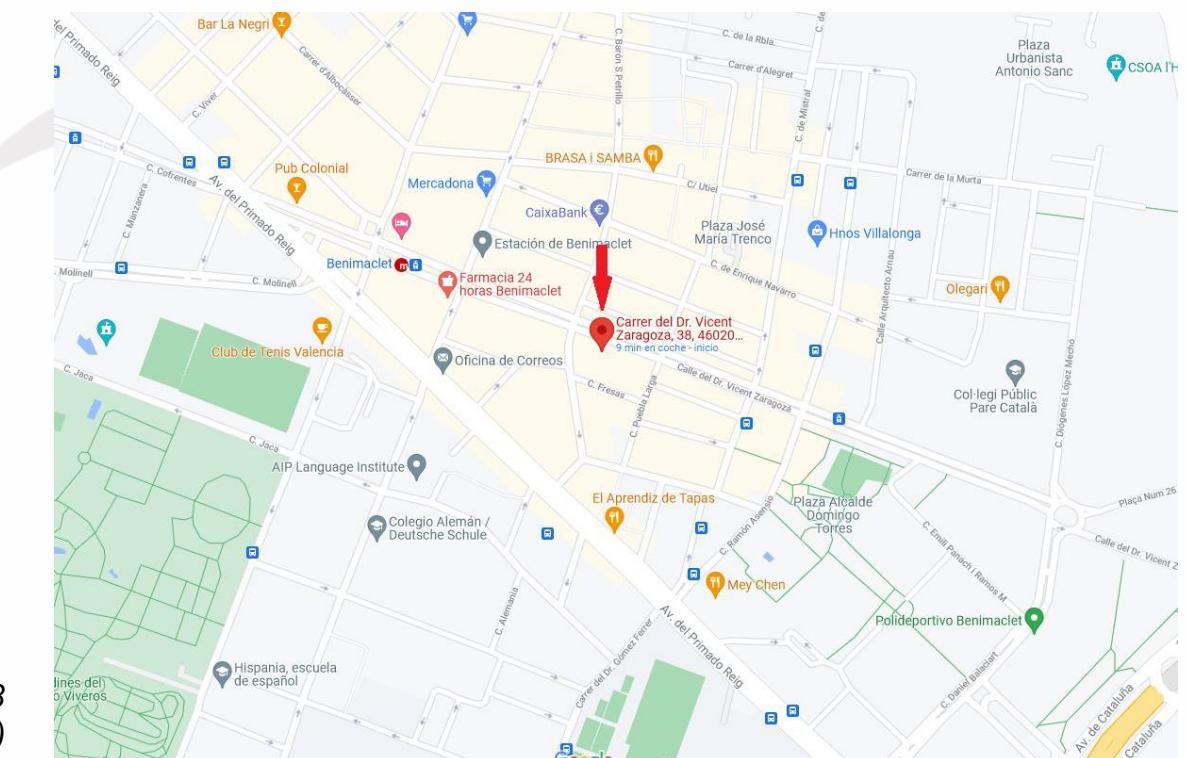


Clinical facilities for in vivo testing

Our clinical facilities are located in the city of Valencia, inside an area with several neighborhoods and near schools and universities, making easier the panel recruitments.

- ✓ Eotech AEVA-HE V4
- 🔍 VisioTOP-500 bench
- 📷 Canon EOS 850D
- 🖨 FrameScan Full NG-48
- ⠠ Corneometer CM 825
- ⠀ Sebumeter SM 815
- ⠀ Thermal FLIR A50
- ✓ Cutometer Dual MPA 580
- 🔍 Mexameter MX 18
- 📷 Colorimeter CL400
- ⠀ Glossymeter GI-200
- ⠠ Tewameter TM Hex
- ⠀ Corneofix + ImageJ

Calle Doctor Vicent Zaragozà, 38
46020, València (España)



FACILITIES



...MORE IMAGES COMING SOON...

SERVICES

If you are a manufacturer or distributor of cosmetic products or ingredients, we offer you a wide R&D portfolio to substantiate your **claims**, complying with the **regulatory** requirements and supporting your **marketing**.

Efficacy tests

In vitro, ex vivo and clinical bioassays using the latest technologies to provide the most accurate results. Our portfolio include studies to demonstrate Claims including anti-wrinkles and whitening, antioxidant and antiaging, firming and moisturizing, anti-pollution and photoprotection, anti-hair loss and hair growth regulation, etc.

Safety tests

In vitro security tests to demonstrate the safety of the samples, before entering into efficacy studies. The testing is performed following OECD protocols for cytotoxicity, irritation, phototoxicity, corrosion, carcinogenicity, absorption, etc.

We'll ensure you always get the **most reliable** results.

IN VITRO EFFICACY

Claims substantiation and R&D marketing support

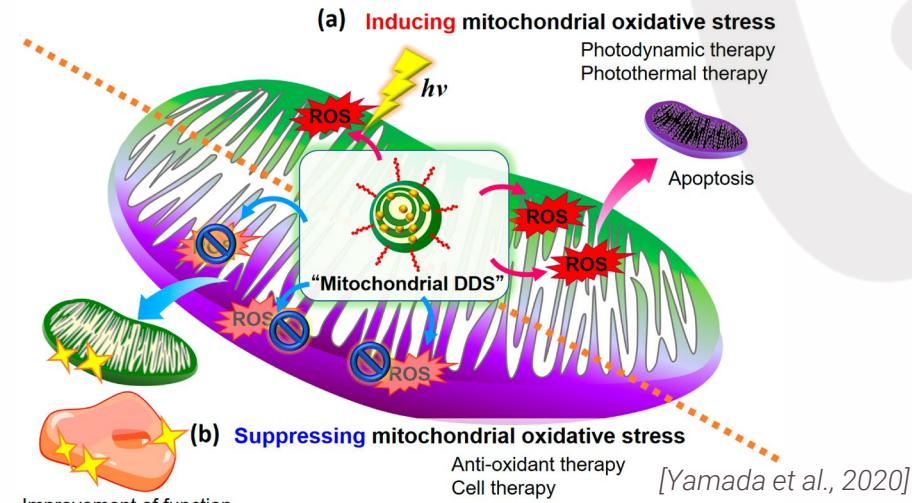
Test & Trust



SERVICES: IN VITRO EFFICACY

ANTIOXIDANT

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
ANTIOXIDANT	DC.AOX-GE-001	Gene Expression	mRNA gene expression (<i>SOD1</i> , <i>SOD2</i> , <i>CAT</i> , <i>NFE2L2</i> , <i>TXN</i> , <i>GPx1</i> ...)	qPCR	HaCaT/NHEK NHDF RHE/RHE FT
	DC.AOX-GL-002	Glutathione	GSH (Reduced glutathione) GSSG (Oxidized glutathione)	LC/MS/MS Tc	
	DC.AOX-RO-003 DC.AOX-RN-004	ROS RNS	Reactive Oxygen Species (ROS) Reactive Nitrogen Species (RNS)	Fluorimetry	
ANTIOXIDANT POTENTIAL	DC.AOX-OR-005	ORAC	Oxygen Radical Absorbance Capacity	Fluorimetry	In tubo
	DC.AOX-TE-006	TEAC	Trolox Equivalent Antioxidant Capacity	Absorbance	



HaCaT: Immortalized human keratinocytes
 NHEK: Normal Human Epidermal Keratinocytes
 NHDF: Normal Human Dermal Fibroblasts
 RHE: 3D Reconstructed Human Epidermis
 RHE FT: 3D Reconstructed Human Skin Full-Thickness

* Protocols are adapted according to customer's needs (external agents such as UV, LPS, etc., timings, conditions, samples...).

SERVICES: IN VITRO EFFICACY

SKIN AGEING AND PROTECTION

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
ANTIAGING FIRMING	DC.AG-GE-007	Gene Expression	mRNA gene expression (<i>COL1A1</i> , <i>COL1A2</i> , <i>COL3A1</i> , <i>COL4A1</i> , <i>ELN</i> , <i>MMP1</i> , <i>MMP3</i> , <i>MMP9</i> , <i>MMP13</i> , <i>ACAN</i> , <i>FN1</i> , <i>TNC</i> , <i>HAS1</i> , <i>HAS2</i> , <i>VCAN</i> ...)	qPCR	NHDF RHE FT
	DC.AG-PS-008	Protein Synthesis	Protein levels (collagens, elastin, matrix metalloproteinases, hyaluronic acid, aggrecan, fibronectin, laminin, tenascin, versican...)	ELISA	
ANTIAGING ANTI-SENESCENCE	DC.AS-TS-009	Telomere Senescence	Telomere length (pb) after senescence induction	qPCR	NHEK NHDF
	DC.AS-TE-010	Telomere Gene Expression	mRNA gene expression (<i>TERT</i> , <i>TEP1</i> , <i>TRF1</i> , <i>BRG-1</i> , <i>CDKN1A</i> , <i>LMNB1</i> ...) after senescence induction or comparing young vs senescent cells	qPCR	
	DC.AS-BG-011	B-Gal Senescence	Beta-galactosidase staining	Absorbance	
ANTIAGING CIRCAD. RHYTHM	DC.CR-GE-012	Gene Expression	mRNA gene expression (<i>CLOCK</i> , <i>BMAL1</i> , <i>CRY</i> , <i>PER</i> , <i>SIRT</i> , <i>NPAS2</i> , <i>RORα</i> ...)	qPCR	HaCaT/NHEK NHDF/RHE
ANTIAGING CELL CYCLE	DC.CC-GE-013	Gene Expression	mRNA gene expression (<i>NUDC</i> , <i>BGLAP</i> , <i>CENPF</i> , <i>TGFB2</i> , <i>SKP2</i> , <i>DBF4</i> , <i>CDC7</i> , <i>PARP1</i> ...)		
ANTIAGING PROTEASOME & AUTOPHAGY	DC.PS-CL-014	Chymotrypsin-like	Chymotrypsin-like proteasomal activity	Fluorimetry	HaCaT/NHEK NHDF/RHE
	DC.PS-PL-015	Protein Location	Cellular sub-location (Amyloid Precursor Protein, Clusterin, LC3, UCHL1...) and stainings (Giantin, Mito)	Immunofluoresce	NHEK/NHDF RHE
	DC.AP-GE-016	Gene Expression	mRNA gene expression (<i>MAP1LC3A/B</i>)	qPCR	

SERVICES: IN VITRO EFFICACY

SKIN AGEING AND PROTECTION

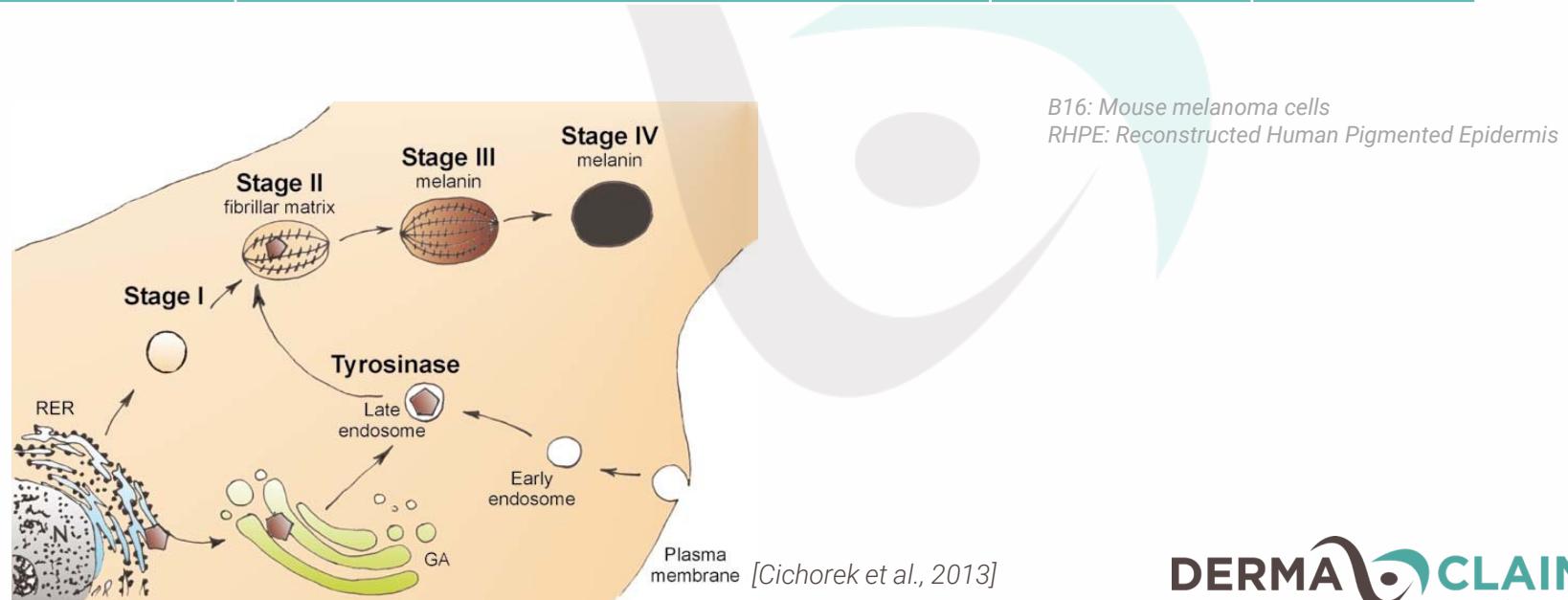
CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL	
SKIN PROTECTION	DC.SP-CV-017	Cell Viability UV	Cell viability (MTT) after UVA or UVB	Absorbance	HaCaT/NHEK NHDF/NHEM RHE/RHE FT	
	DC.SP-CV-018	Cell Viability HEV-IR	Cell viability (MTT) after blue light (HEV) or infrared (IR)			
SKIN PROTECTION ANTIOXIDANT	DC.SP-OS-019	Oxidative Stress UV	Reactive Oxygen Species after UVA or UVB	Fluorimetry		
	DC.SP-OS-020	Oxidat. Stress HEV	Reactive Oxygen Species after blue light (HEV) or infrared (IR)			
SKIN PROTECTION DNA PROTECTION	DC.SP-DP-021	DNA Protection	Thymine dimers (T-T), histone γ-H2Ax, or 8-oxo-dG after UVB (application before irradiation)	Flow cytometry		
SKIN REPAIR DNA REPAIR	DC.SP-DR-022	DNA Repair	Thymine dimers (T-T), histone γ-H2Ax, or 8-oxo-dG after UVB (application after irradiation)			
SKIN PROTECTION DETOXIFYING	DC.DX-LP-023	Lipid Peroxidation	Malondialdehyde (MDA-TBARs) after UVA or UVB	ELISA		
	DC.DX-PC-024	Protein Carbonylation	Protein carbonyl after UVA or UVB			
	DC.DX-PG-025	Protein Glycation	Advanced glycation end (AGE) after UVA or UVB			

NHEM: Normal Human Epidermal Melanocytes

SERVICES: IN VITRO EFFICACY

SKIN PIGMENTATION

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
WHITENING PRO-PIGMENTING	DC.PG-ML-026	Melanin	Melanin levels after UV irradiation	Absorbance	NHEM / B16 RHPE NHEK-NHEM
	DC.PG-GE-027	Melanogenesis Gene Expression	mRNA gene expression (<i>TYR</i> , <i>TYRP-1</i> , <i>TYRP-2</i> , <i>MITF</i> , <i>POMC</i> , <i>PMEL17</i> ...)	qPCR	
	DC.PG-TA-028	Tyrosinase Activity	Tyrosinase enzymatic activity	Colorimetry	In tubo
	DC.PG-FM-029	Fontana-Masson	Melanin staining (black), nuclei (red) and cytoplasm (Pink) using bright-field microscopy	Histological staining	NHEM RHPE



SERVICES: IN VITRO EFFICACY

HAIR GROWTH, ALOPECIA & GRAY

HFDPC: Human Follicle Dermal Papilla Cells

HF: Human follicles extracted from volunteers

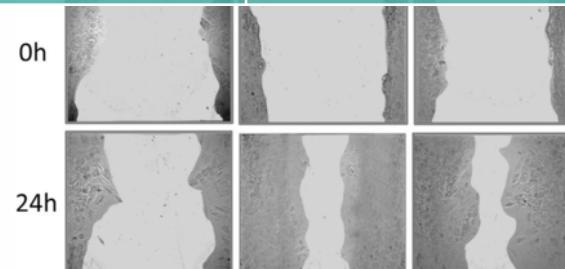
Human hair: Human hair swatches extracted from volunteers

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
HAIR GROWTH & PROLIFERATION	DC.HG-CP-030	Cell Proliferation	Cell proliferation using MTT * + Control included	Absorbance	HaCaT HFDPC
	DC.HG-CP-031		Cell proliferation using BrdU * + Control included	ELISA Flow cytometry	
	DC.HG-GE-032	Gene Expression	mRNA gene expression growth factors (<i>EDN1, IGF1, HDC, TGFb, VEGF, KGF, FGF1, FGF2, FGF10, EGF...</i>)	qPCR	HFDPC
	DC.HG-PH-033	Philpott	Human follicles growth ex vivo	Image Analysis	HF
	DC.HG-PE-034	Protein Expression	Ki67, B-catenin, apoptosis...	Flow Cytometry Confocal Micro	HFDPC HF
ANTI-HAIR LOSS	DC.HL-AA-035	Androgenetic Alopecia	mRNA gene expression 5-alpha Reductase (<i>SRD5A1, SRD5A2, SRD5A3</i>)	qPCR	HFDPC
HAIR STRENGTH	DC.HS-KP-036	Keratin protein	Keratin protein levels (<i>KRT1, KRT31, KRT37, KRT84, KRT86...</i>)	ELISA	HaCaT NHEK
HAIR PROTECTION	DC.HP-OS-037	Oxidative Stress	Reactive Oxygen Species (ROS) after UV damage	Fluorimetry	Human Hair swatches
	DC.HP-PD-038	Protein Degradation	Protein degradation after UV damage (Bradford)		
ANTI-GRAY	DC.AG-GE-039	Gene Expression	mRNA gene expression (<i>IRF4, MITF, TYR, DCT...</i>)	qPCR	NHEM

SERVICES: IN VITRO EFFICACY

HYDRATION, DERMAL BARRIER, PROLIFERATION & REGENERATION

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
MOISTURIZING	DC.MT-PS-040	Biomolecules Synthesis	Biomolecules levels (hyaluronic acid, aquaporins, ceramides, GAGs...)	ELISA	HaCaT/NHEK NHDF RHE/RHE FT
	DC.MT-GE-041	Gene Expression	mRNA expression (HAS1, HAS2, HAS3, HYAL1, HYAL2, HYAL3, AQP1, AQP2, AQP3...)	qPCR	
EPIDERMAL DIFFERENTIATION & COHESION	DC.ED-PS-042	Protein Synthesis	Protein levels (ceramides, filaggrin, involucrin, cytokeratins, integrin, occludin, claudin, connexins, collagens, desmoglein, B-catenin...)	ELISA Immunofluoresc	
CELL PROLIFERATION	DC.CP-PF-043	Proliferation	Cell proliferation (MTT, NRU) *T0 included (for inhibition)	Absorbance Fluorimetry	HaCaT/NHEK NHDF
	DC.CP-PF-043	Proliferation	Cell proliferation using BrdU *T0 included (for inhibition)	ELISA Flow cytometry	
	DC.CP-CC-044	Cell cycle	Double staining Ki67/PI or DAPI Single staining PI *	Flow cytometry	HaCaT/NHEK NHDF RHE/RHE FT
REGENERATION WOUND-HEALING	DC.WH-SA-045	Scratch assay	Wound-healing 10mg* + Control is included	Image Analysis	HaCaT/NHEK NHDF



SERVICES: IN VITRO EFFICACY

SKIN POLLUTION

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
ANTI-POLLUTION	DC.AP-CV-046	Cell Viability	Cell viability after Urban Dust	Absorbance	HaCaT/NHEK NHDF/NBFC HPF/HUVEC RHE/RHE FT
ANTI-POLLUTION ANTIOXIDANT	DC.AP-OS-047	Oxidative Stress	Reactive Oxygen Species (ROS) after Urban Dust Cell viability quantification is included in parallel	Fluorimetry Absorbance	
ANTI-POLLUTION ANTI-INFLAMMATION	DC.AP-AI-048	Inflammation	mRNA gene expression (<i>TNF</i> , <i>IL1A</i> , <i>IL1B</i> , <i>IL6</i> , <i>IL8</i> , <i>IL17</i> , <i>COX2</i> ...) after Urban Dust or heavy metals	qPCR	
ANTI-POLLUTION ANTI-APOPTOSIS	DC.AP-AP-049	Apoptosis	mRNA gene or Protein expression (<i>BAX2</i> , <i>ARNTL</i> , <i>FAS1</i> , <i>CASP9</i> ...) after Urban Dust	qPCR/ELISA Immunofluoresc	
ANTI-POLLUTION	DC.AP-XM-050	Xenobiotic Metabolism	mRNA gene expression (<i>CYP1A1</i> , <i>NFE2L2</i>) after Urban Dust, dioxins, tobacco extract or heavy metals	qPCR Immunofluoresc	



NBFC: Normal Bronchial Fibroblasts cells

HPF: Human Pulmonary Fibroblasts

HUVEC: Human Umbilical Vein Endothelial Cells

SERVICES: IN VITRO EFFICACY

SKIN INFLAMMATION

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
ANTI-IRRITATION	DC.AI-GE-051	Gene Expression Protein Synthesis	mRNA gene expression or protein levels (<i>TNF, IL1A, IL1B, IL6, IL8, IL10, IL17, ICAM, COX2, ALOX5...</i>) after external induction (LPS, UV, His...)	qPCR ELISA	HaCaT/NHEK NHDF/HDC HTC/PBMC RHE/RHE FT
	DC.AI-TF-052	Transcription Factors	Transcription factors (NFkB, AP1, STAT1...)	Flow Cytometry Immunofluoresc	
ANTI-IRRITATION PAIN INHIBITION	DC.AI-PI-053	Pain Inhibition	mRNA gene expression or protein levels (<i>TRPV1</i> and <i>TNF</i>) after external induction (LPS, UV, His...)	qPCR ELISA	

HDC: Human Dendritic Cells

HTC: Human T-Cells

PBMC: Peripheral Blood Mononuclear Cells

PigS: Pig Skin

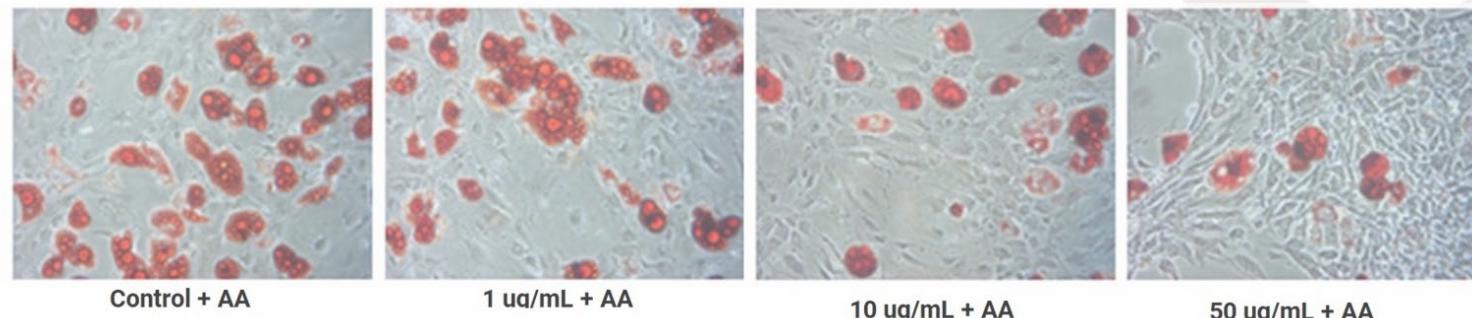
SKIN PENETRATION OR TARGETED-DELIVERY

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
DERMAL PENETRATION	DC.SP-DP-054	Penetration Co-localization (delivery)	Immunostaining (DAPI, H&E, fluorescence, protein expression, TUNEL...)	Immunofluoresc Image analysis	HaCaT/NHEK NHDF/PigS RHE/RHE FT

SERVICES: IN VITRO EFFICACY

ANTI-ACNE, OILY SKIN AND SLIMMING

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
SLIMMING	DC.SL-FA-055	Fatty Acid	Total fatty acid content using Oil Red O staining, after induction (AA)	Absorbance	iSEB 3T3-L1 HPAd NHDF
	DC.SL-SD-056	Sebocyte Differentiation	Protein expression (EMA, KRT7, PPARy, K7...)	ELISA Western Blot	
	DC.SL-LP-057	Lipogenesis Gene Expression	mRNA gene expression (ATGL, HSL, PRDM, UCP...)	qPCR	
	DC.SL-CL-058	Cholesterol Adiponectin	Cholesterol and adiponectin content	Fluorimetry ELISA	
ANTI-ACNE ANTI-INFLAMMAT	DC.AA-GE-059	Gene Expression	mRNA gene expression (<i>TNF</i> , <i>DEFB1</i> , <i>SRD5A1</i> , <i>SRD5A2</i> , <i>SRD5A3</i>) after induction (<i>P.acnes</i> , LTA)	qPCR	NHEK NHDF
	DC.AA-PS-060	Protein Synthesis	Protein content (TNFa and B-defensin)	ELISA	



iSEB: Sebocytes from induced Pluripotent Stem Cell
3T3-L1: Mouse 3T3 adipose
HPAd: Human pre-adipocytes

SERVICES: IN VITRO EFFICACY

OTHERS

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
ANTI-STRESS	DC.AS-GE-061	Stress mediators	Biomolecule's synthesis (CRH, POMC, B-endorphin, cortisol, prolactin, kallikrein-1...) after induction (adrenalin, cortisol, UV)	ELISA	HaCaT/NHEK NHDF RHE/RHE FT
ENERGIZING	DC.EG-AT-062	ATP synthesis	ATP content in starving conditions	Fluorimetry	HaCaT/NHEK NHDF
MICROBIOME	DC.MB-BG-063	Bacterial growth	Bacterial viability (<i>S.epidermidis</i> , <i>S.hominis</i> , <i>P.aeruginosa</i> , <i>P.acnes</i> , <i>S.aureus</i> ...)	Absorbance Colony counting	Bacteria
ANTI-MICROBIAL	DC.AM-DD-064	Disk Diffusion Test	Bacterial growth in antibiogram plaque	Image Analysis	
THERMAL SHOCK	DC.TS-CV-065	Cell Viability	Cell viability after heat (45°C) or cold (4°C) shock	Absorbance	HaCaT/NHEK NHDF RHE/RHE FT
	DC.TS-HS-066	Heat Shock Protein	HSPs content (HSP27, HSP70, HSP90)	ELISA	
EPIGENETICS	DC.EG-DM-067	DNA methylation	DNA methylation after external aggression	Flow Cytometry	NHEK/NHDF
	DC.EG-ME-068	miRNA Expression	miRNAs gene expression (miR-22, -31, -152, -143, -126, -21, -27a, -214, -16, -203, -125b, -34a, -205...)	qPCR	NHEK/NHDF RHE/RHE FT
GENE EXPRESSION SCREENING	DC.SC-RS-069	RNAseq	mRNA gene expression of whole genome	NGS	

CLINICAL TESTING

Claims substantiation and R&D marketing support

Test & Trust



SERVICES: CLINICAL EFFICACY IN HUMAN VOLUNTEERS

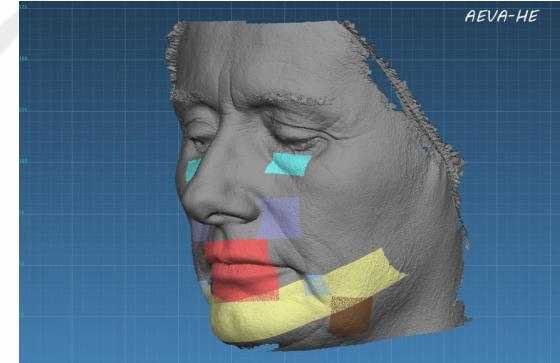
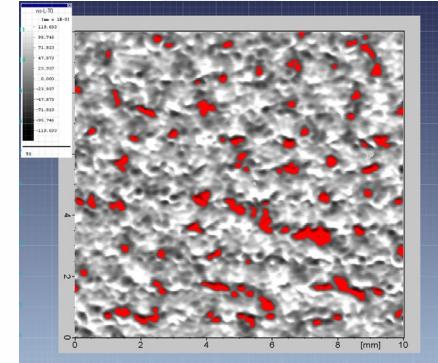
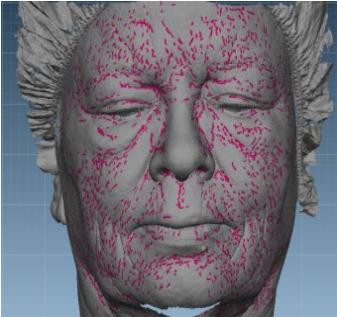
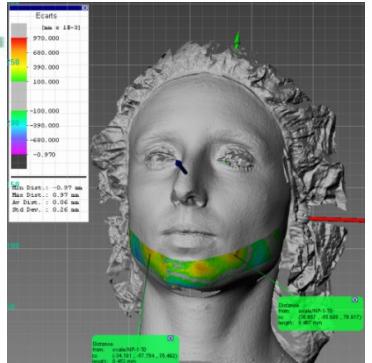
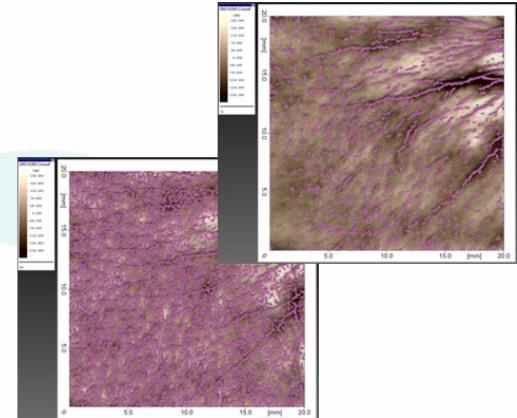
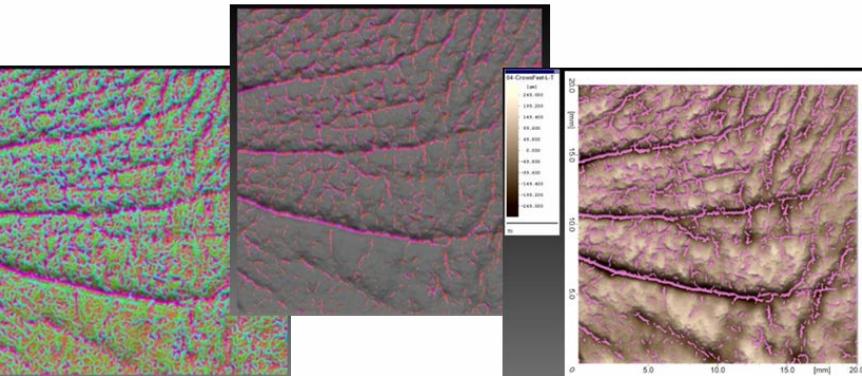
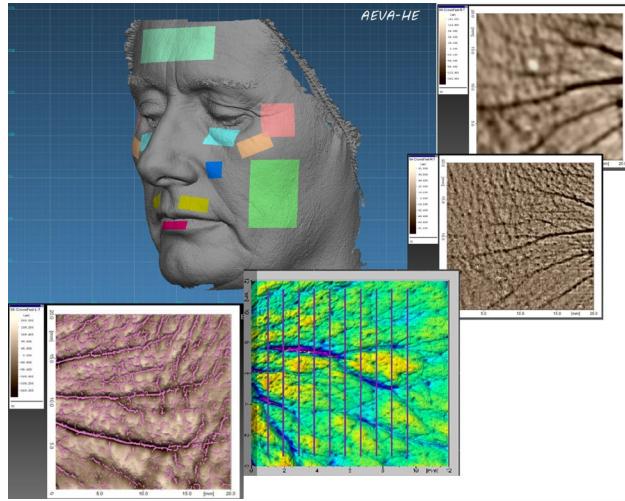
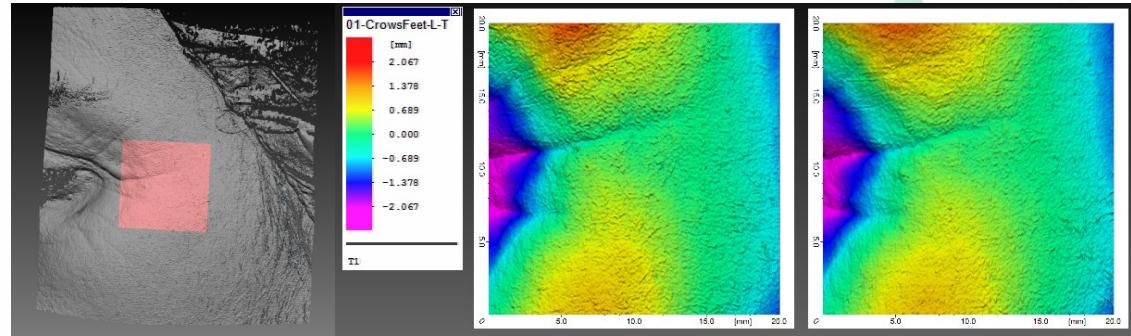
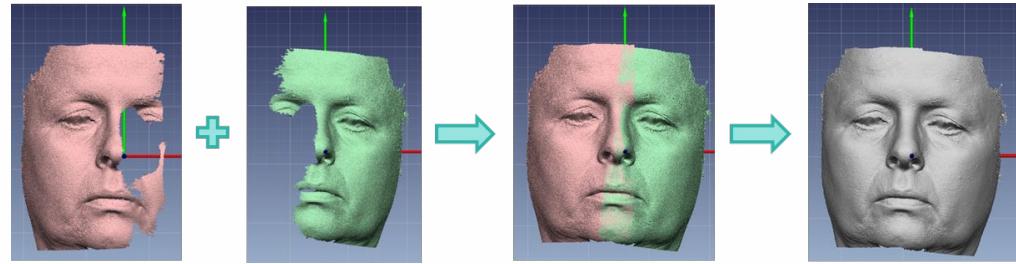
FACE ANTIAGING

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE
ANTI-WRINKLES & FINE LINES	DC.CL-AW-077	Wrinkles	Wrinkles and fine lines (area, number, height, length, volume...) in forehead, crow's feet, glabellar, eyelids, perioral, nasolabial, lips fine lines, lips corners...	Eotech AEVA-HE V4 FoV S-L with VisioTOP-500 bench
ANTI-WRINKLES REMODELING	DC.CL-WD-078	Wrinkles density	Wrinkles density (ratio of the area) in whole face	
SMOOTHING	DC.CL-RG-079	Roughness	Surface roughness and skin texture (Lr, Sa, St, Stm, Sq) in the Region of Interest (ROI)	
ANTI-PORES	DC.CL-PO-080	Pores	Pores (area, volume, circumference, max and mean height) in the Region of Interest (ROI)	
ANTI-EYE BAG ANTI-SAGGING VOLUMIZING	DC.CL-VO-081	3D Volume	3D volume (mean deviation, min and max volumes) in eyebags, cheek, neck, décolleté, nasal folds, oval...	
REMODELING V-SHAPE VOLUMIZING	DC.CL-FS-082	Face shape	Face shape geometry (angles, distance between points, length measurements) in face oval	
FIRMING ELASTICITY	DC.CL-CU-083	Firmness	Firmness, elasticity and fatigue	Cutometer Dual MPA 580

* All of our clinical tests include a self-assessment questionnaire, macroscopic digital pictures, marketing pictures, dermatologically tested and clinically tested.

** Protocols are adapted according to customer's needs (number of volunteers, biomarkers, measurements, length, questionnaires, etc.)

SERVICES: CLINICAL EFFICACY IN HUMAN VOLUNTEERS

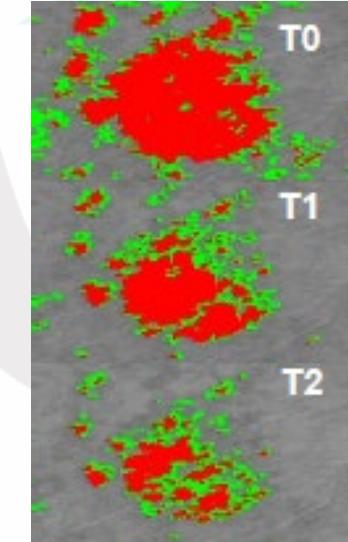
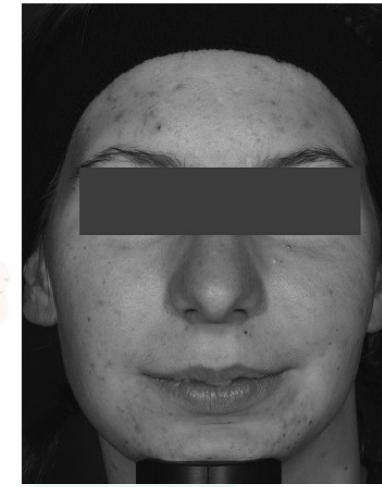


SERVICES: CLINICAL EFFICACY

SKIN PIGMENTATION and COLORIMETRY

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE
WHITENING SKIN TONE	DC.CL-WH-084	Skin tone	Color analysis of the skin (RVB-CIELab, ITA°) in whole area	Nikon D5600 FrameScan NG-48
ANTI-DARK SPOTS	DC.CL-DS-085	Dark spots	Color (RVB-CIELab, ITA°) and morphology (surface, perimeter, regularity, homogeneity, contrast) of spots (pigmentary spots, acne, blemishes, rosacea) in ROI	Nikon D5600 FrameScan NG-48
HOMOGENEITY VASCULARIZATION	DC.CL-HG-086	Homogeneity	Homogeneity of the skin and global intensity of vascularization or pigmentation (entropy, density, number, mean surface, occupancy rate...) in ROI	Nikon D5600 FrameScan NG-48
BRIGHTNESS	DC.CL-BR-087	Brightness	Local/global brightness analysis (skin, hair, nails, make-up...) in the Region of Interest (ROI)	Nikon D5600 FrameScan NG-48 Glossymeter GL-200
ANTI-DARK CIRCLES	DC.CL-DC-088	Dark circles	Color (RVB-CIELab, ITA°) and morphology (surface, perimeter, regularity, homogeneity, contrast) of dark circles under eyes	Nikon D5600 FrameScan NG-48
SKIN TONE SKIN RADIANCE	DC.CL-ST-089	Skin tone	Skin tone (erythema and melanin) analysis in specific area (melanin, ITA°, RVB-CIELab)	Mexameter MX 18 Colorimeter CL400

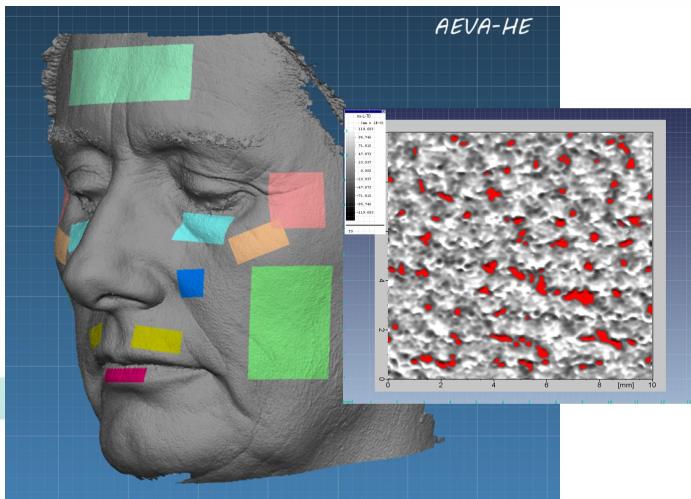
SERVICES: CLINICAL EFFICACY



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ANTI-ACNE and OILY SKIN

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE
ANTI-ACNE	DC.CL-AA-090	Acne	Acne analysis for bumps and pimples (area, number, circumference, max and min height)	Eotech AEVA-HE V4 FoV S-L with VisioTOP-500 bench
ANTI-SEBUM CLEANSING MATTIFYING	DC.CL-AS-091	Sebum	Sebum content ($\mu\text{g}/\text{cm}^2$) and sebaceous glands (area and number)	Sebumeter SM 815 Sebufix F-16 Image Analysis
NON-COMEDOGENIC	DC.CL-NC-092	Comedones	Visual counting of comedones	Visual Analysis Image Analysis



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REDNESS, SOOTHING, MOISTURIZING and BARRIER FUNCTION

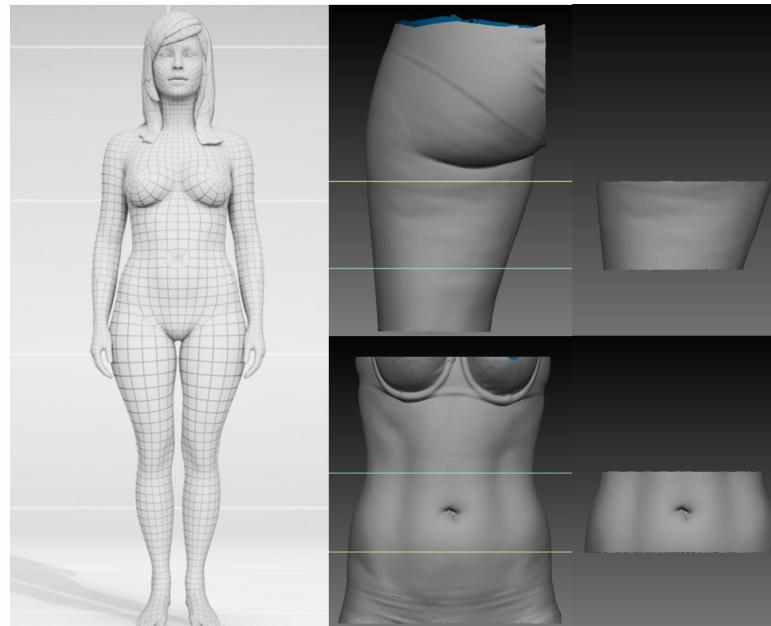
CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE
ANTI-REDNESS SKIN TONE	DC.CL-AR-093	Redness	Skin vascularization (RVB-CIELab, ITA°) and rosacea in whole face. Skin tone and erythema levels in specific ROI.	Nikon D5600 FrameScan NG-48 Colorimeter CL400 Mexameter MX 18
SOOTHING ANTI-IRRITATION	DC.CL-AI-094	Anti-irritation	Redness after SLS occlusive patch exposure during 4-5 days in forearm. <i>Untreated or Placebo is included.</i>	Mexameter MX 18
SOOTHING ANTI-ITCHING	DC.CL-AIT-095	Stinging Test	Application of 10 % Lactic Acid and subjective evaluation of the stinging intensity. <i>Untreated or Placebo is included.</i>	Self-assessment evaluation
MOISTURIZING	DC.CL-MT-096	Long-term Hydration	Moisturizing levels (long-term)	Corneometer CM 825
		Short-term Hydration	Moisturizing levels (short-term, 24h, 5T)	
BARRIER FUNCTION	DC.CL-BF-097	TEWL	Trans-epidermal Water Loss (TEWL) levels	Tewameter TM HEX



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BODY REMODELING: CELLULITIS, STRETCH MARKS and SCARS

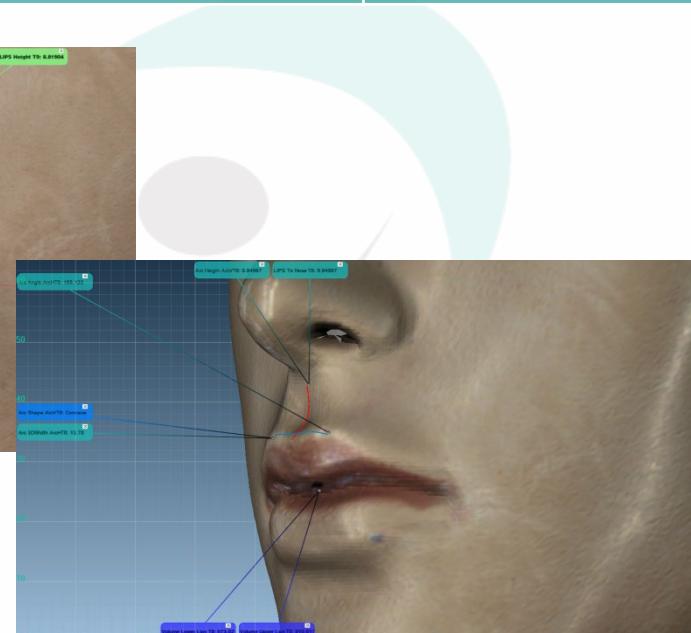
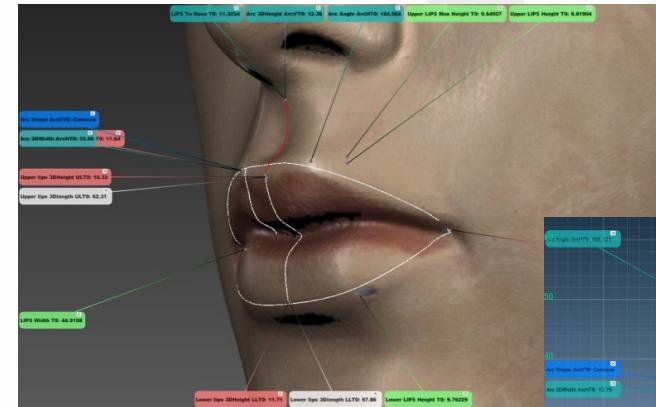
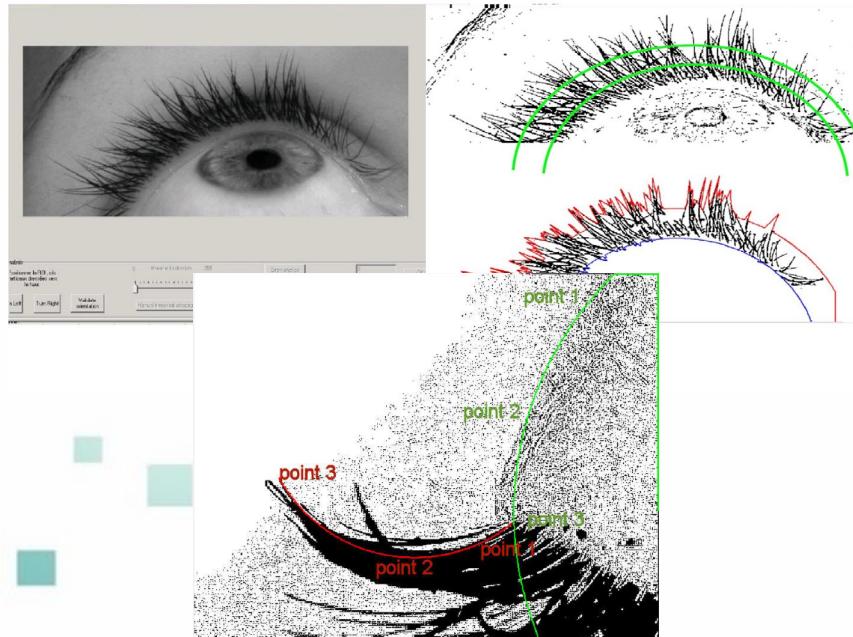
CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE
ANTI-CELLULITIS BODY THIGHTENING SLIMMING	DC.CL-CL-098	Cellulitis	3D volume and circumference (thighs and abdomen). Firmness and elasticity analysis included.	Eotech AEVA-HE V4 FoV L with Tripod Manfrotto 475B
ANTI-STRETCH MARKS AND SCARS	DC.CL-SM-099	Stretch marks	Stretch marks and scars (size, volume and roughness) in the Region of Interest (ROI). Skin color (ITA°, Lab) analysis included.	Cutometer Dual MPA 580 Colorimeter CL 400



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EYELASHES, LIPS and CUPID'S BOW

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE
EYELASH GROWTH EYELASH DENSITY	DC.CL-EL-100	Eyelashes	Eyelashes (number, length, width, volume, curvature, elevation, parallelism and aggregates). Real and perceived effects (for mascara).	Nikon D5600 FrameScan NG-48
LIPS VOLUMIZING	DC.CL-LV-101	Lips Volume	Lips (volume, width, height, circularity)	Eotech AEVA-HE V4 FoV L with VisioTOP-500 bench
CUPID'S BOW REMODELING	DC.CL-CB-102	Cupid's Bow	Cupid's bow (vertical distance, height, width, angle, shape, amplitude)	



SERVICES: CLINICAL EFFICACY

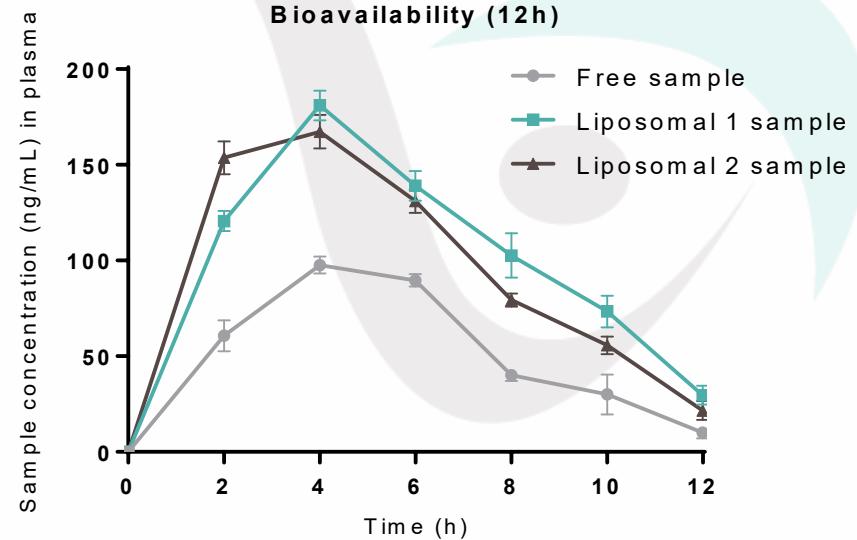
OTHER SKIN PARAMETERS

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE
SKIN TEMPERATURE	DC.CL-ST-103	Thermography	Skin temperature analysis using infrared	Thermal Camera FLIR A50
COLOR STABILITY & CLEANSING	DC.CL-CS-104	Color Stability	Measurement of the occupancy of a pigmented product. Color stability and cleansing [make-up, lipstick, foundation cream, eye-liner...]	Nikon D5600 FrameScan NG-48 Colorimeter CL 400
EXFOLIATING	DC.CL-EF-105	Desquamation	Corneocytes quantification using Corneofix	Corneofix + Image Analysis
REGENERATING	DC.CL-RG-106	Cell Turn-over	Cell turn-over measurement after inducing pigmentation with DHA.	Mexameter MX 18 Colorimeter CL 400
DERMATOLOGICALLY OPHTHALMOLOGIC. CLINICALLY TESTED	DC.CL-DT-107	Use Test	Self-assessment questionnaire + Macroscopic digital images + Dermatologically/Ophthalmologically tested + Clinically tested + Tolerance tested	Self-assessment questionnaire
ANTIOXIDANT	DC.CL-AO-108	Oxidative Stress	Reactive Oxygen Species (ROS) levels using Corneofix	Corneofix + Fluorimetry
MICROBIOME	DC.CL-MB-109	Microbiome	16sRNA whole microbiome sequencing after sampling with swab (DNA isolation, PCR, library, diversity, Blast, etc.)	Swab + NGS

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ORAL INTAKE: FUNCTIONALITY & BIOAVAILABILITY

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE
FUNCTIONAL FOOD	DC.CL-ST-110	Blood Analysis	Complete blood analysis (cholesterol, glucose, urea, creatinine, uric acid, triglycerides, hemogram...). Biostatistical data analysis is included.	Blood Analysis Vein / Fingerstick UPLS-MS/MS ELISA
BIOAVAILABILITY	DC.CL-BA-111	Bioavailability	Quantification of the tested sample using UPLC/MS-MS or ELISA, after vein or fingerstick blood extraction	



* All of our clinical tests including oral intake are previously validated through an Ethical Committee (CEIm) to ensure the safety of the protocol and the tested samples.

IN VITRO SAFETY

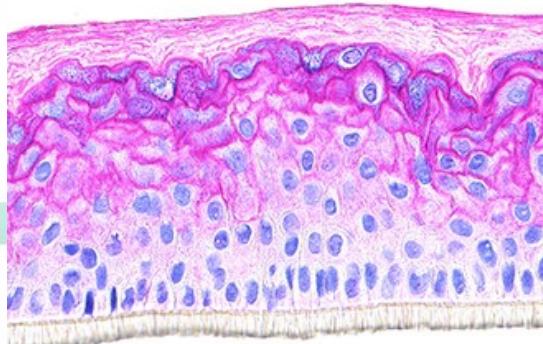
Claims substantiation and R&D marketing support

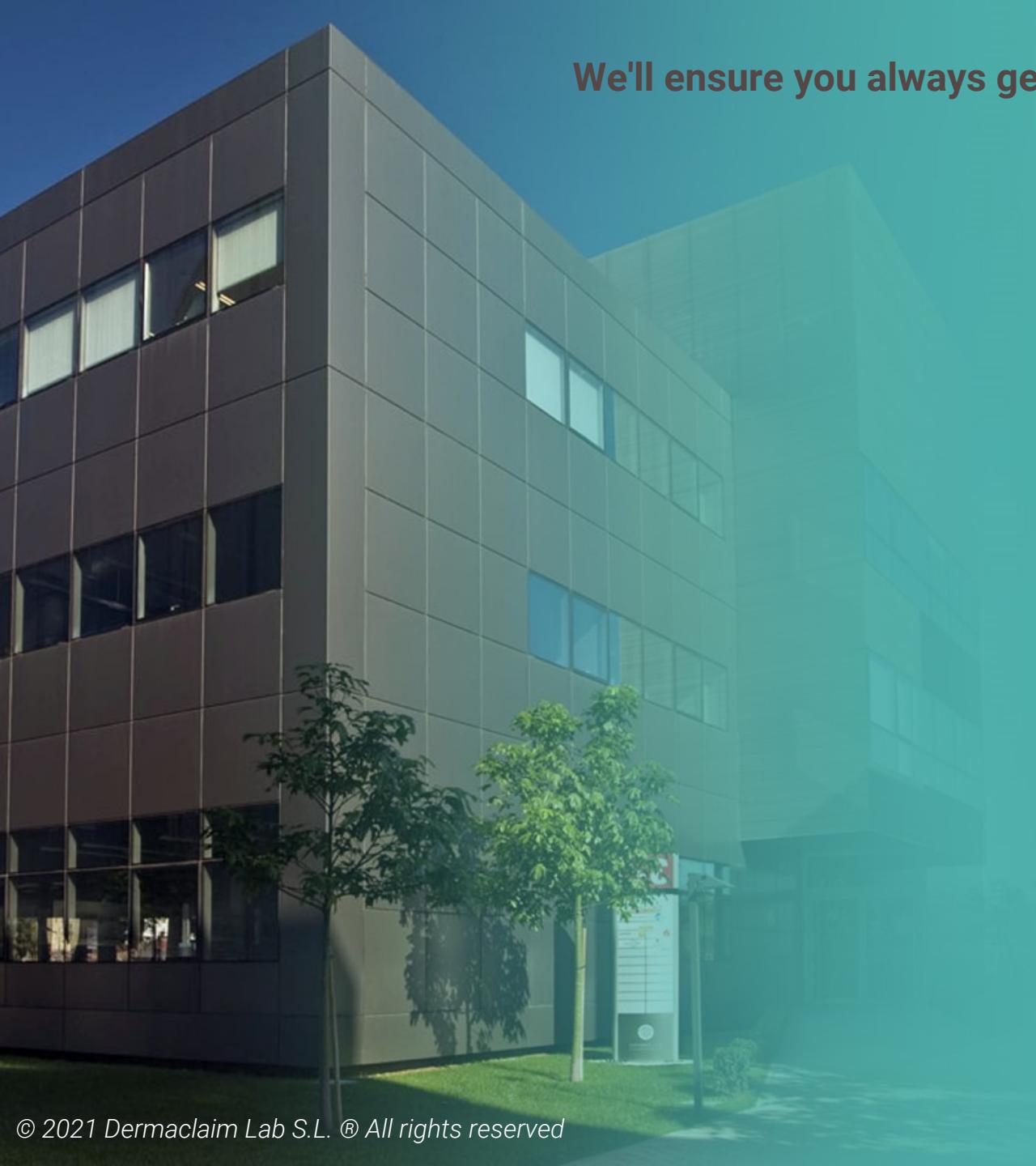
Test & Trust



SERVICES: IN VITRO SAFETY

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
CYTOTOXICITY	DC.SF-MC-070	MTT	MTT cytotoxicity ECVAM N°17	Absorbance	All models
CYTOTOXICITY SKIN IRRITATION	DC.SF-SI-071	OECD 439	Skin irritation (OECD 439) using MTT	Absorbance	RHE RHE FT
PHOTOTOXICITY	DC.SF-PT-072	OECD 432	Phototoxicity (OECD 432) using NRU	Absorbance	3T3-L1
SKIN CORROSION	DC.SF-SC-073	OECD 431	Skin corrosion (OECD 431) using MTT	Absorbance	RHE RHE FT
EYE IRRITATION	DC.SF-EI-074	OECD 492	Eye irritation (OECD 492) using MTT or WST-1,8	Absorbance Fluorimetry	RhCE
SKIN ABSORPTION	DC.SF-SA-075	OECD 428	Skin absorption (OECD 428) using Franz Cell	Franz Cell UPLC-MS/MS	PigS RHE/RHE FT
SKIN MUTAGENICITY	DC.SF-SM-076	OECD 471	Ames Test (OECD 471)	Colony counting	<i>S.typhimurium</i> <i>E.coli</i>





We'll ensure you always get the most reliable results.

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