



COSMETIC EFFICACY TESTING

DERMOCOSMETIC TESTING LABORATORY

In vitro services

Claims substantiation
R&D marketing support

Test & Trust. The most reliable results.

Dermaclaim Lab is a **Dermocosmetic Testing Laboratory** focused on the **Substantiation of Efficacy Claims** for active ingredients and end-products, through **in vitro bioassays** and **clinical testing** in human volunteers.

Our R&D testing services help you to demonstrate the efficacy of your products, increasing your scientific marketing and sales potential. We provide you with high-quality R&D testing and counseling, focused on your marketing and sales needs.

We offer one of the **best scientific reports** in the market, **reliable results** with **rigorous protocols**, and customer support with **fast response** and immediate attention. We use the most **innovative and cutting-edge** equipment and technologies, with full **transparency** (the customer has complete access to raw data), following a **high quality-to-cost ratio** and **quality** system standards (ISO 9001:2015, ISO 27001:2022, CIR...).

Our **mission** is to ensure the generation of accurate and innovative findings to substantiate the marketing **claims**. The company was born from the desire to offer the **most reliable** testing service, based on our passion for excellence and unique focus for **quality**. Dermaclaim is your **"Test & Trust" partner**.



Test & Trust. The most reliable results.

Dermaclaim provides reliable, fast, and cost-effective testing



Accurate and reliable product testing focusing on your marketing



PYME INNOVADORA



WHY DERMACLAIM?

- 01** **Fast response** and **immediate attention** to any query. High-quality customer support.
- 02** One of the **most complete scientific reports** in the market.
- 03** **Reliable results** with **rigorous protocols** (compliance, replicates, statistics...).
- 04** **Latest equipments** and **cutting-edge technologies**, both for in vitro and clinical.
- 05** **Duplicate for all the clinical equipments**, to avoid discontinuity due to technical issues.
- 06** **Full transparency** (complete access to raw data).
- 07** **High quality-to-cost ratio**, cost-effective testing.
- 08** **Flexibility** and custom-made studies for **all-sizes customers**.
- 09** **Deep know-how and expertise**. Team with +1.700 projects and 11+ years in the industry.

- 10** Optimal technical **study conditions** in **continuous improvement**.
- 11** Special focus on the **clinical recruitment** taking care of every detail.
- 12** **Research & Development collaborations** with public and private organisms.
- 13** Strategies, processes and policies developed under **quality system standards** (ISO 9001:2015, ISO 27001:2022, Crédit d'Impôt Recherche, Pyme Innovadora)





 Confocal Microscopy

 Genomics

 Cell Culture

 Atomic Spectroscopy

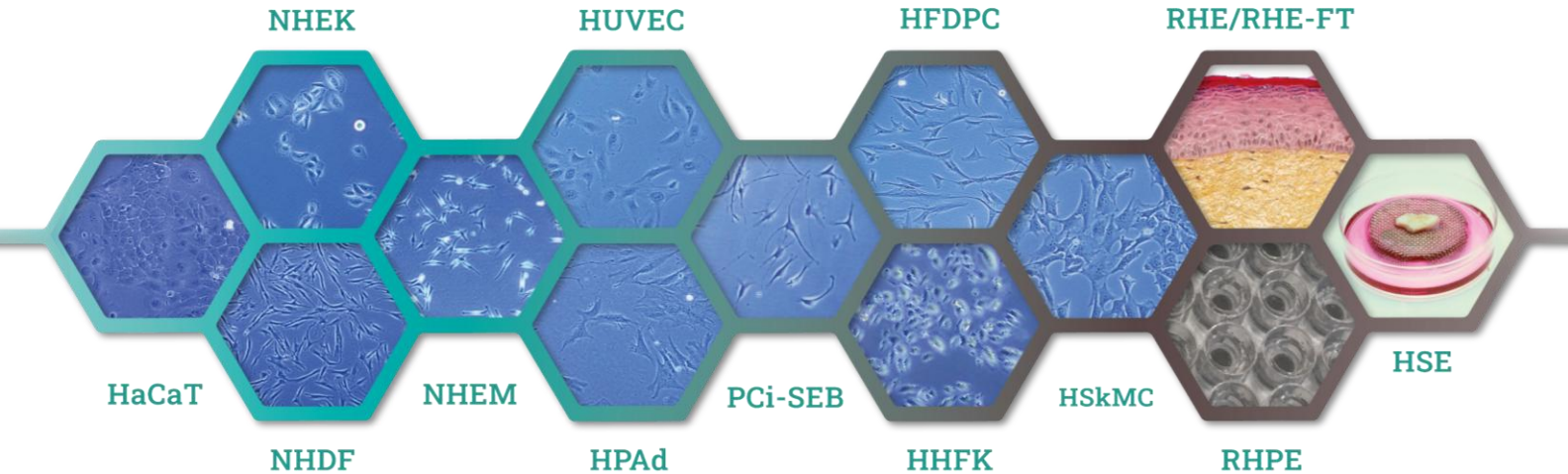
 Flow Cytometry

 Proteomics

 Mass Spectrometry

 NMR

HUMAN CELL LINES & 3D SKIN MODELS

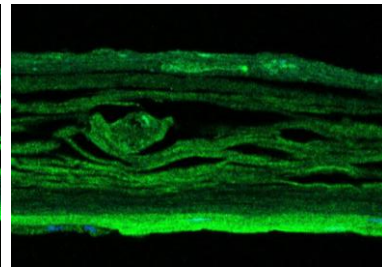
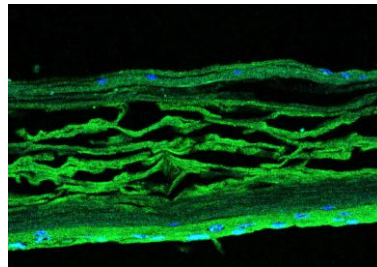
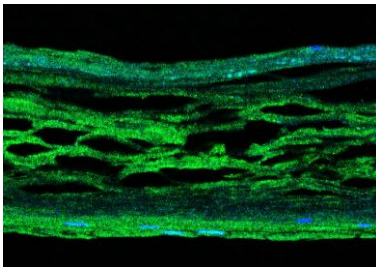


* Protocols are adapted according to customer's needs (cell lines, external agents, time of treatment, conditions, samples...).



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> , <i>HMOX</i> , <i>TXN</i> ...)	qPCR	HaCaT/NHEK NHDF RHE/RHE FT HSE
	DC.AOX-GL-002	Glutathione	GSH (Reduced glutathione) and GSSG (Oxidized glutathione) levels. Ratio GSH/GSSG	UPLC-MS/MS	
	DC.AOX-RO-003 DC.AOX-RN-003	ROS RNS	Reactive Oxygen / Nitrogen Species (ROS / RNS), after external induction (H ₂ O, UV...). Normalization to cell viability (quantified by MTT).	Fluorimetry Absorbance	
	DC.AX-IF-042	Oxidative Stress Immunofluoresc	4-HNE protein adducts immunostaining after UV irradiation.	Confocal Microscopy	
	DC.AX.SD-004	SOD Activity	Enzymatic activity of Superoxide Dismutase (SOD) through colorimetric reaction (MTX → Formazan)	Colorimetry	
ANTIOXIDANT POTENTIAL	DC.AOX-OR-005 DC.AOX-TE-006	ORAC TEAC	Oxygen Radical Absorbance Capacity Trolox Equivalent Antioxidant Capacity	Absorbance	In tubo



SKIN AGING & PROTECTION



CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
ANTIAGING FIRMING	DC.AG-GE-007	Gene Expression	mRNA gene expression (<i>COL1A1, COL1A2, COL3A1, COL4A1, ELN, MMP1, MMP3, MMP9, MMP13, ACAN, FN1, TNC, HAS1, HAS2, VCAN...</i>)	qPCR	NHDF RHE FT HSE
	DC.AG-PS-008	Protein Content	Protein levels (collagens, elastin, matrix metalloproteinases, hyaluronic acid, aggrecan, fibronectin, laminin, tenascin, versican...). Normalization to cell viability (MTT) or protein total content (BCA).	ELISA	
	DC.SP-IF-132	Protein ECM Immunofluorescenc	Protein ECM assessment after immunofluorescence with specific antibodies (collagens, elastin, matrix metalloproteinases, filaggrin, involucrin, etc.).	Immunofluorescence	
ANTIAGING ANTI-SENESCENCE	DC.AS-TS-009	Telomere Shortening	Telomere length (pb) after senescence induction	qPCR	NHEK NHDF HSE
	DC.AS-TE-010	Telomere Gene Expression	mRNA gene expression (<i>TERT, TEP1, TRF1, BRG-1, CDKN1A, LMNB1...</i>) after senescence induction, or comparing young vs senescent cells	qPCR	
	DC.AS-BG-011	B-Gal Activity	Beta-galactosidase enzymatic activity	Flow Cytometry	
ANTIAGING APOPTOSIS	DC.AP-AN-113	Apoptosis	Annexin-V staining. Apoptosis induced (external agent)		
ANTIAGING CIRCAD. RHYTHM	DC.CR-GE-012	Gene Expression	mRNA gene expression (<i>CLOCK, BMAL1, CRY, PER, SIRT, NPAS2, RORa...</i>)		
ANTIAGING CELL CYCLE	DC.CC-GE-013	Gene Expression	mRNA gene expression (<i>NUDC, BGLAP, CENPF, TGFB2, SKP2, DBF4, CDC7, PARP1, FOXO3, PRKAA2...</i>)		
ANTIAGING PROTEASOME & AUTOPHAGY	DC.PS-CL-014	Proteasome	Chymotrypsin-like, Trypsin-like, and Caspase-like proteasomal activity. 1 to 3 luminogenic substrates.	Fluorimetry	HaCaT/NHEK NHDF/RHE
	DC.PS-PL-015	Protein Location	Subcellular location (Amyloid Precursor Protein, Clusterin, LC3, UCHL1...) and stainings (Giantin, Mito)	Immunofluorescence	NHEK/NHDF RHE
	DC.AP-GE-016	Gene Expression	mRNA gene expression (<i>MAP1LC3A, MAP1LC3B, PINK1, PRKN, BNIP3L, ATG7, ATG13, ATG5...</i>)	qPCR	



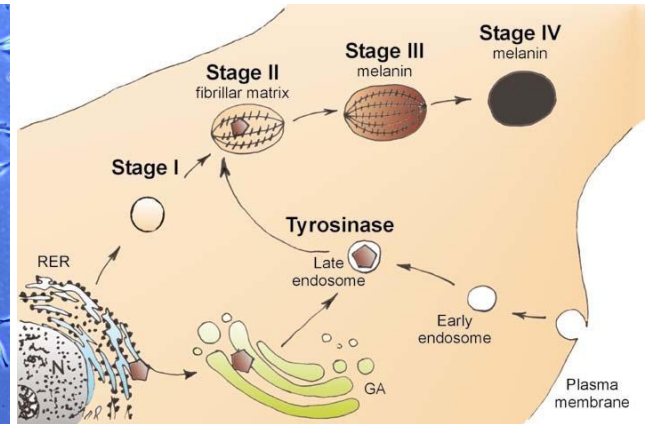
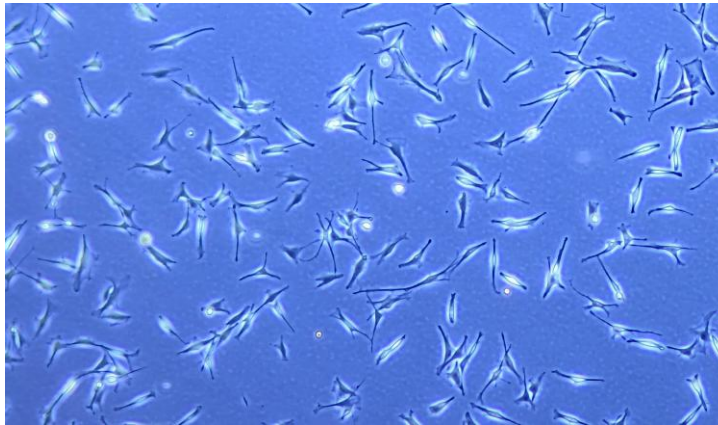
SKIN AGING & PROTECTION

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
SKIN PROTECTION CELL VIABILITY	DC.SP-CV-017	Cell Viability UV	Cell viability (MTT) after UVA (LZC-UVA, 316-400 nm) or UVB (LZC-UVB, 281-315 nm)	Absorbance	HaCaT/NHEK NHDF/NHEM RHE/RHE FT HSE
	DC.SP-CV-018	Cell Viability HEV-IR	Cell viability (MTT) after high-energy visible (HEV) light (LZC-420, 400-700 nm) or infrared (IR, 780 – 1.400 nm)		
	DC.SP-CV-129	Cell Viability Sun Irradiation	Cell viability (MTT) after solar irradiation with UVACUBE400-SOL500 (305 – 1.700 nm)		
SKIN PROTECTION ANTIOXIDANT	DC.SP-OS-019	Oxidative Stress UV	Reactive Oxygen Species after UVA or UVB. Normalization to cell viability (quantified by MTT).	Fluorimetry	
	DC.SP-OS-020	Oxidat. Stress HEV	Reactive Oxygen Species after blue light (HEV) or infrared (IR). Normalization to cell viability (quantified by MTT).		
	DC.SP-OS-130	Oxidat. Stress Sun Irradiation	Reactive Oxygen Species after solar irradiation with UVACUBE400-SOL500 (305 – 1.700 nm). Normalization to cell viability (quantified by MTT).		
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 solar irradiation with UVACUBE400-SOL500 (305 – 1.700 nm)	Colorimetry ELISA Fluorimetry	
	DC.DX-PC-024	Protein Carbonylation	Protein carbonyl species after solar irradiation with UVACUBE400-SOL500 (305 – 1.700 nm)		
	DC.DX-PG-025	Protein Glycation	Advanced glycation ends (AGEs) after solar irradiation with UVACUBE400-SOL500 (305 – 1.700 nm)		

SKIN PIGMENTATION



CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
WHITENING PRO-PIGMENTING	DC.PG-ML-026	Melanin	Melanin levels after inducing pigmentation (aMSH, UV)	Absorbance	NHEM / B16 RHPE NHEK-NHEM
	DC.PG-GE-027	Melanogenesis Gene Expression	mRNA gene expression (<i>TYR, TYRP-1, TYRP-2, MITF, POMC, PMEL17...</i>)	qPCR	
	DC.PG-TA-028	Tyrosinase Enzymatic Activity	Tyrosinase enzymatic activity using colorimetric kit.	Colorimetry	NHEM / B16 RHPE
	DC.PG-TA-114	In situ Tyrosinase Activity	Staining with L-DOPA, transformed to L-DOPA-Melanin by tyrosinase enzyme. Microscopic image analysis.	Optical Microscopy	
	DC.PG-FM-029	Fontana-Masson	Melanin staining (black), nuclei (red) and cytoplasm (Pink) using bright-field microscopy	Histological staining	
	DC.MT-ML-149	Melanosome transfer	Assessment of melanosome transfer after treatment in co-culture between keratinocytes and melanocytes	Immunostaining	





HAIR EFFICACY

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
HAIR GROWTH & PROLIFERATION	DC.HG-CP-030	Cell Proliferation	Cell proliferation using MTT or BrdU. T0 included (to differentiate cytostatic and cytotoxic. Positive control (EGF) included.	Absorbance	HHFK HFDPDC
	DC.HG-CP-031			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	HFDPDC
	DC.HG-PH-033	Philpott	Ex vivo evaluation of hair follicles extracted from human volunteers. Positive control (EGF) included.	Image Analysis	HF
	DC.HG-PE-034	Protein Expression	Assessment of specific parameters related to hair growth and apoptosis (Ki67, B-catenin...)	Flow Cytometry Confocal Microsc	HFDPDC HF
ANTI-HAIR LOSS	DC.HL-AA-035	Androgenetic Alopecia	mRNA gene expression 5 α -Reductase (<i>SRD5A1, SRD5A2, SRD5A3</i>)	qPCR	HFDPDC
	DC.HL-DH-135	DHT Levels	5 α -Dihydrotestosterone (DHT) levels assessment after external induction with testosterone	UPLC-MS/MS	HFDPDC PCI-SEB
HAIR STRENGTH	DC.HS-KP-036	Keratin protein	Keratin protein levels expressed in human hair (KRT31-KRT40, KRT81-KRT86)	ELISA	HHFK
HAIR PROTECTION	DC.HP-OS-037	Oxidative Stress	Reactive Oxygen Species after UVA, UVB, IR, or HEV. Normalization to cell viability (quantified by MTT).	Fluorimetry	HHFK HFDPDC
	DC.HP-PD-038	Protein Degradation	Protein degradation or lipid peroxidation after UV damage with UVACUBE400-SOL500 [300 – 1.700 nm]		Human Hair swatches
ANTI-GRAY	DC.AG-GE-039	Gene Expression	mRNA gene expression (<i>IRF4, MITF, TYR, DCT...</i>) after inhibiting melanogenesis with external agent.	qPCR	NHEM

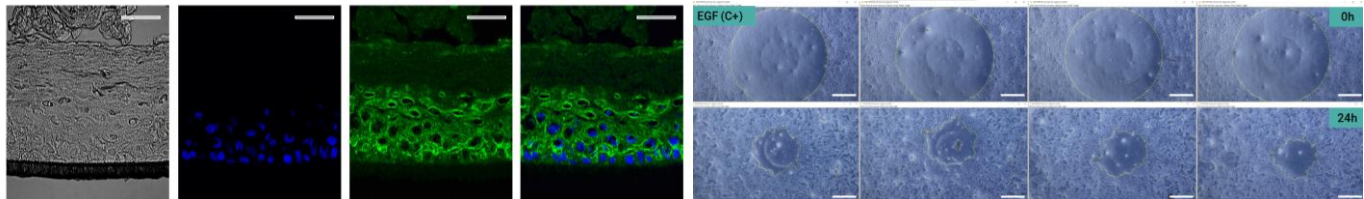
Human Follicle Dermal Papilla Cells (HFDPDC), passage 1-4

* HFDPDC differentiate to fibroblasts after passage 4-6

MOISTURIZING, BARRIER & REGENERATION



CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
MOISTURIZING, EPIDERMAL DIFFERENTIATION & COHESION	DC.EB-PS-040	Protein Synthesis	Protein (filaggrin, involucrin, cytokeratins, integrin, occludin, claudin, connexins, hydrolases, desmoglein, B-catenin...) or Biomolecules levels (HA, CERs, GAGs, Taurine...). Normalization to cell viability (MTT) or protein total content (BCA).	ELISA	HaCaT/NHEK NHDF RHE/RHE FT H. Explants
	DC.EB-GE-041	Gene Expression	mRNA expression of genes involved in moisturizing and epidermal barrier pathways (HAS1, HAS2, HAS3, HYAL1, HYAL2, HYAL3, AQP1, AQP2, AQP3...).	qPCR	
	DC.ED-IF-042	Immunofluoresc. Analysis	Immunofluorescence analysis of biomolecules or proteins using specific antibodies, including DAPI staining for cell nuclei.	Immunofluorescence Confocal microscopy	
CELL PROLIFERATION	DC.CP-PF-043	Proliferation	Cell proliferation using MTT. <i>T0 included (to differentiate cytostatic and cytotoxic)</i>	Absorbance Fluorimetry	HaCaT/NHEK NHDF
	DC.CP-PF-043	Proliferation	Cell proliferation using BrdU. <i>T0 included (to differentiate cytostatic and cytotoxic)</i>	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 using Oris™ Cell Seeding Stoppers and image analysis.	Image Analysis Fluorimetry	HaCaT/NHEK NHDF





INFLAMMATORY RESPONSE & POLLUTION

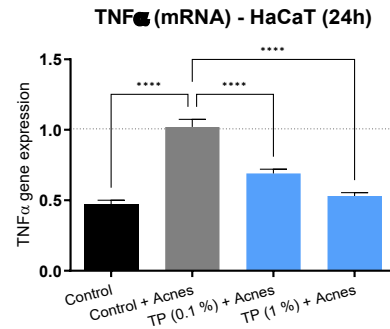
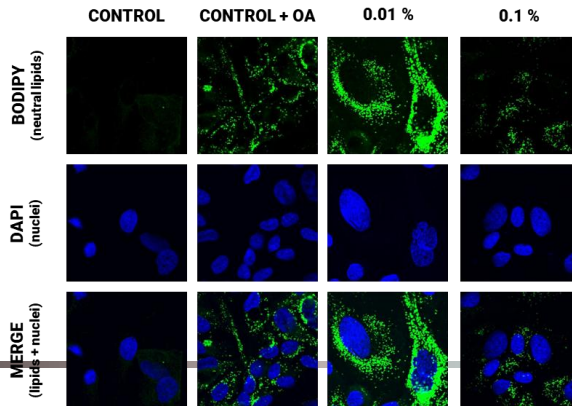
CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
ANTI-IRRITATION	DC.AI-GE-051	Gene Expression Protein Content	mRNA gene expression or protein levels (<i>TNF, IL1A, IL1B, IL6, IL8, IL10, IL17, ICAM, COX2, ALOX5, NFkB, AP1, STAT1, HO-1...</i>) after external induction (LPS, UV, His...).	qPCR ELISA	HaCaT/NHEK NHDF/HDC HTC/PBMC RHE/RHE FT HSE THP-1
	DC.IS-GE-052	Immune system stimulation	mRNA gene expression or protein levels (<i>MX1, IFNA1, DEFA1, LYZ, HTN1, HTN3, CAMP, TACT1, CCL20, DCD</i>). Biomarkers involved in antiviral/antimicrobial defenses.	qPCR ELISA	
PAIN INHIBITION CALCIUM RELEASE	DC.AI-PI-053	Pain Inhibition	Calcium release using Fluo-4 Direct™ Calcium Assay Kit, after induction with capsaicin.	Fluorimetry	
ANTI- INFLAMMATION PSORIASIS	DC.AI-PS-131	Psoriasis Inflammation	mRNA gene expression or protein levels (<i>HBD2, ENA-78, Elafin, Psoriasin, Thymosin alpha 1, IL-36, CDSN, Corneodesmosin...</i>) involved in psoriatic disease.	qPCR ELISA	

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 HSE
ANTI-POLLUTION ANTIOXIDANT	DC.AP-OS-047	Oxidative Stress	Reactive Oxygen Species (ROS) after Urban Dust. Normalization to cell viability (MTT).	Fluorimetry Absorbance	
ANTI-POLLUTION ANTI-INFLAMMATI	DC.AP-AI-048	Inflammation	mRNA gene expression (<i>TNF, IL1A, IL1B, IL6, IL8, IL17, 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, ARNTL, FAST1, CASP9...</i>) after Urban Dust	qPCR/ELISA Immunofluorescence	
ANTI-POLLUTION	DC.AP-XM-050	Xenobiotic Metabolism	mRNA gene expression (<i>CYP1A1, NFE2L2</i>) after Urban Dust, dioxins, tobacco extract or heavy metals	qPCR Immunofluorescence	

ANTI-ACNE, OILY SKIN, AND SLIMMING

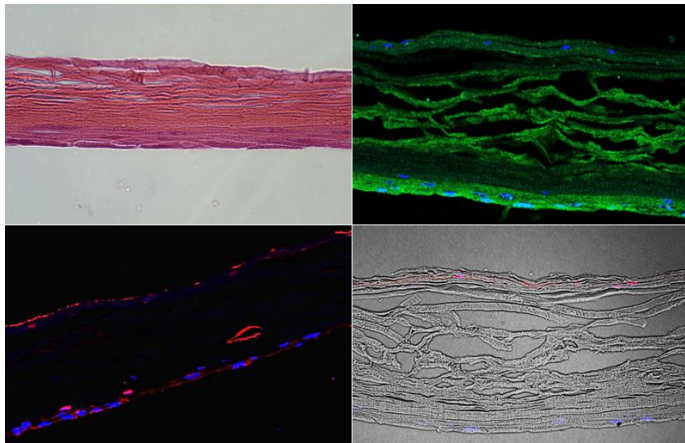


CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
SLIMMING	DC.SL-FA-055	Lipogenesis (Lipid content)	Total intracellular lipid and fatty acid content using Bodipy staining, after induction of lipogenesis.	Fluorescence	PCi-SEB HPAd-HAd 3T3-L1
	DC.SL-SD-056	Sebocyte Differentiation	Protein levels (PAR-2, MUC-1/EMA, FAS, Glu4, KRT7, PPAR γ , K7...) after maturation and differentiation	ELISA	
	DC.SL-LP-057	Lipogenesis Sebogenesis	Expression of genes involved in lipogenesis (<i>ATGL</i> , <i>LPL</i> , <i>HSL</i> , <i>PRDM</i> , <i>UCP</i> ...) or sebogenesis (<i>SRD5A1</i> , <i>SRD5A2</i> , <i>SRD5A3</i> , <i>MC5R</i> ...)	qPCR	
	DC.SL-CL-058	Cholesterol Adiponectin	Cholesterol and adiponectin content	Fluorimetry ELISA	
	DC.SL-LA-115	Lipase Activity	Enzymatic lipase activity	Colorimetry	
ANTI-ACNE ANTI- INFLAMMATION	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 Content	Protein content (TNF α , B-defensin 1, B-Defensin 2)	ELISA	



SKIN PENETRATION

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
DERMAL PENETRATION	DC.SP-DP-054	Penetration Co-localization	Immunostaining (DAPI, H&E, fluorescence, protein expression, TUNEL...)	Immunofluorescence Image analysis	RHE/RHE FT PS/HSE
DERMAL THICKNESS	DC.SP-DT-054	Dermal Thickness	Hematoxylin-eosin staining and dermal thickness assessment through image analysis.	Immunofluorescence Image analysis	RHE RHT-FT
SKIN ABSORPTION FRANZ CELL	DC.SF-SA-075	Franz Cell	Skin absorption using Diffusion system (Franz Cell). Customized conditions for timepoints and layers of quantification.	Franz Cell UPLC/LC-MS/MS	PigSkin RHE/RHE FT HSE



OTHER PARAMETERS



CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
ANTI-STRESS	DC.AS-GE-061	Stress mediators	Biomolecule's content (CRH, POMC, B-endorphin, cortisol, prolactin, kallikrein-1...) after induction (cortisone, adrenalin, UV...). Normalization to cell viability (MTT) or protein total content (BCA).	ELISA	HaCaT/NHEK NHDF RHE/RHE FT
ENERGIZING	DC.EG-AT-062	ATP synthesis	ATP content in starving conditions.	Fluorimetry	HaCaT/NHEK NHDF
MEMBRANE POTENTIAL	DC.EG-MP-125	JC-1 Membrane Potential	Mitochondrial membrane potential monitoring through JC-1 dye.	Fluorimetry Flow cytometry	HaCaT/NHEK NHDF
MICROBIOME	DC.MB-BG-063	Bacterial viability (turbidimetry)	Evaluation of bacterial viability in 4 strains present on human skin or scalp (<i>S.epidermidis</i> , <i>S.hominis</i> , <i>S.aureus</i> , <i>C.acnes</i> , <i>M.furfur</i> , <i>M.restricta</i> ...) during 24-48 hours.	Absorbance	Bacteria
ANTI-MICROBIAL	DC.AM-CC-064	Bacterial viability (colony count)	Evaluation of bacterial viability in 4 strains present on human skin (<i>S.epidermidis</i> , <i>S.hominis</i> , <i>S.aureus</i> , <i>C.acnes</i> , <i>M.furfur</i> ...), through colony counting, during 16-24 hours.	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). Normalization to cell viability (MTT) or protein total content (BCA).	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	HaCaT/NHDF NHEK/NHEM HFDPC/HHFK RHE/RHE FT HSE
GENE EXPRESSION TRANSCRIPTOME	DC.SC-RS-069	Screening Gene Expression 3'mRNA	3'mRNA-seq transcriptome sequencing analysis. Technical protocols (quality scores, FASTQs, PCA), results with expression levels (log2FoldChange), differential expression analysis (Volcano, Heatmaps, GO annotation).	3'mRNA-seq	

OTHER PARAMETERS

CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
ANTIAGING ENERGIZING	DC.EG-ND-147	NAD / NAD+ Metabolism	NAD+, NADH, NAD++NADH, and Ratio NAD+/NADH levels, normalized to total protein content (BCA).	Colorimetry	HaCaT/NHEK NHDF RHE
BOTOX-LIKE CALCIUM RELEASE	DC.MC-CR-121	Botox-like Calcium release	Calcium release using Fluo-4 Direct™ Calcium Assay Kit, after induction with ionomycin.	Fluorimetry	HSkMC
BOTOX-LIKE ACETYLCHOLINE	DC.BL-AC-137	Botox-like Acetylcholine	Inhibition of acetylcholine levels after induction with ionomycin.	ELISA	i-HNSC-derived neurons
BOTOX-LIKE SNAP 25 (WB)	DC.BL-WB-138	Botox-like SNAP25	Semi-quantitative evaluation of the ratio of cleaved vs non-cleaved SNAP25.	Western Blot	
OXYGEN LEVELS	DC.OX-OC-122	Oxygen levels	Oxygen levels (% O ₂) using MitoXpress Intra Intracellular Oxygen Assay. Readout during 300 minutes.	Fluorimetry	HSkMC NHDF
EXERCISE-LIKE ACTIVITY	DC.SM-GE-128	Gene Expression Skeletal Muscle	mRNA gene expression (MOTS-C, MYH1, MYH2, MYH3, IL-15, etc.) involved in muscle and skeletal health.	qPCR	HSkMC
MICROCIRCULATION & ANTIAGING	DC.MC-GE-145	Microcirculation Gene Expression	mRNA gene expression (VEGFA, EDN1, EDN2, ANGPT1, ANGPT2...), involved in endothelial microcirculation.	qPCR	HDLEC HUVEC HMEC-1
VASCULAR PERMEABILITY DARK CIRCLES	DC.LP-FD-133	Vascular Permeability	Evaluation of the ability to restore the externally-induced disruption (thrombin, TNFa) of endothelial barrier integrity using Transwell® filter inserts.	Fluorimetry	
SUN IMMUNOREG. VITAMINS C/D	DC.UA-VT-146	Intracellular vitamin C and D levels	To analyze the stimulating capabilities on the intracellular levels of vitamin C and vitamin D	LC-MS/MS	HaCaT/NHEK RHE
ANALYTICAL QUANTIFICATION	DC.AL-UP-123	Mass Spectrometry Analytical	Analytical quantification of different compounds using mass spectrometry (UP)LC-MS/MS in complex extracts or formulations.	UPLC-MS/MS LC-MS GC-MS	Custom

SAFETY TESTS (OECD)



CLAIM	REFERENCE	TITLE	BIOMARKER	TECHNIQUE	MODEL
CYTOTOXICITY	DC.SF-MC-070	Cytotoxicity (MTT)	Cellular viability and cytotoxic potential through MTT assay.	Absorbance	HaCaT/NHEK NHDF/NHEM HFDPc/HHFK
IRRITATION (OECD 439)	DC.SF-SI-071	Skin irritation (MTT)	Irritating potential in 3D Reconstructed Human Epidermis, following OECD 439 guidelines (60 min, 42h, MTT).	Absorbance	RHE RHE-FT
EYE IRRITATION (OECD 492)	DC.SF-UI-156	Ocular irritation (MTT)	Irritating potential in 3D Reconstructed Human Corneal Epithelium, following OECD 492 guidelines (10 min, 42h, MTT).	Absorbance	SkinEthic HCE
PHOTOTOXICITY (OECD 432)	DC.SF-PT-152	Skin phototoxicity (NRU)	Phototoxicity potential through photoreactive cytotoxic response, following OECD 432 guidelines (60 min, 24h, NRU).	Fluorimetry	BALB/c 3T3
SENSITIZATION (OECD 442E)	DC.SP-PS-140	Skin sensitization (h-CLAT)	Sensitizing potential through CD86 and CD54 protein levels, following OECD 442E guidelines (h-CLAT, 24h)	ELISA	THP-1
SENSITIZATION (OECD 442E)	DC.SP-PS-155	Skin sensitization (U-SENS)	Sensitizing potential through CD86 expression, following OECD 442E guidelines (U-SENS, 45h), including cytotoxicity assessment.	Flow cytometry	U937
SKIN PENETRATION (OECD 428)	DC.SF-SP-157	Skin penetration (Franz Cell)	Skin absorption using Diffusion system (Franz Cell), following OECD 428 guidelines (24h).	Franz Cell UPLC/LC-MS/MS	RHE RHE FT
SKIN MUTAGENICIT (OECD 471)	DC.SF-MG-158	Mutagenicity Ames Test	Mutagenic potential through Ames Test, following OECD 471 guidelines (S.typhimurium & E.coli, 72h, colony counting)	Colony counting	Bacteria

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