



Spincontrol

SPINCONTROL Resentation

Clinical Research Organization specialized in the evaluation of the efficacy and the tolerance of any product with cosmetic, aesthetic or wellbeing claims.

Behind Eurofins Spincontrol









- **Tailor-made protocols**, from standard to innovative methods
- In-house image analysis
- **Emotion test**
- Quality system based on 2 quality standards:
 - Compliant with ISO 9001 standard since 2005
 - Studies conducted in the "spirit of the GCP"
- **Marketing & regulatory monitoring**

Key figures









Efficacy tests & Techniques



Global Expertise, Personal Touci

Our clinical studies can be performed according to different protocols











Consumer approach

Technical approach

Clinical approach

Sensorial approach

Emotional approach

Targeted consumers will be asked to evaluate the product at home and to fill out a questionnaire at the end of the study. This approach is based on the use of instrumentations which allow quantitative and/or illustrative results

(3D technologies, AEVA system (Eotech), image analysis, Infra-red camera, Dynaskin and all the other standard techniques (sebumeter, ballistometer, corneometer...)). (by dermatologists or ophthalmologists or general practitioners)

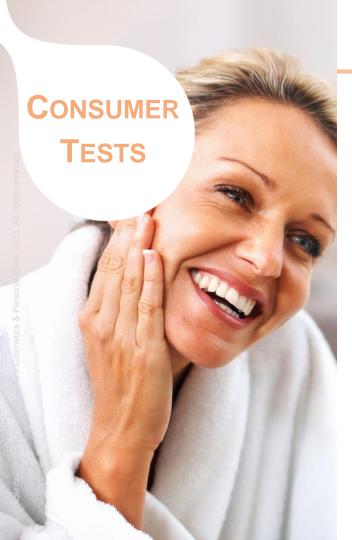
This approach is performed under the supervision of a specialist who will evaluate the efficacy of the product.

(by trained experts)

This method is based on the senses (sight and touch). Three regularly trained experts will grade parameters such as firmness, wrinkles, dimples or softness... Emotions influence our behavior and perception of the product. We drawup tailor-made protocols according to three components (subjective,

then interpreted by a Neuropsychologist.

with or without a tolerance test



Perception of your product 👯



The consumer test provides essential information on the perception of your product.

- Spinconso: department of Spincontrol, dedicated to consumer tests.
- 30 years of experience
- Complete supervision of the studies: up-front reflections, choice of the protocol, preparation and implementation on fieldwork, analysis of data and elaboration of recommendations
- Regular update of the database of panelists
- Follow-up on the panelists reliability
- Fast setting-up of studies and delivery of results

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BENCHMARK, BLIND OR BRAND STUDIES

according to 2 options:



- Questionnaires filling process at home
- Questionnaires filling process at Spincontrol' under supervision

PANEL CHARACTERISTICS



- People from all over France: 8,000 panelists with over 300 details (including cosmetic habits, purchasing sectors, purchased brands etc...)
- People from Tours and its suburbs: 7,000 panelists with more than 300 details

Little extra: Emotional approach

BENEFITS OF CONSUMER TEST







PRACTICALITY

ADAPTABILITY

PROFITABILITY



Image processing and analysis



Global Expertise, Personal Touch

A department dedicated to image processing and analysis!

In the world of cosmetics, digital image analysis mainly consists in proving the product efficacy, thanks to essential information assimilated in the smallest details of an image. It also allows to:



OBTAIN IMAGES UNDER STANDARDIZED CONDITIONS



IDENTIFY AND QUANTIFY VARIATIONS IN SKIN AND HAIR PARAMETERS



ILLUSTRATE
COSMETIC BENEFITS



CREATE
MARKETING SUPPORT

SPIN'ANALYSIS



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The interest is to work on standardized photos, generally taken in a laboratory with high-performance tools, which can be taken:

- In cross-polarization, i.e. with suppression of the light on the skin surface;
- In parallel polarization, i.e. with all the specular light;
- In diffuse light, i.e. with a homogenization of the light on the skin surface.

OBJECTIVE: TO ASSIST YOU IN PROCESSING YOUR IMAGES ON ANY TYPE OF CLAIMS.

Anti dark circles - Anti dark spot - Anti rosacea - Anti sebum effect - Anti wrinkle - Complexion homogeneity - Complexion radiance - Lifting - Matifying effect - Skin texture - Tanning effect - Whitening effect - etc



FACE CLAIMS

Anti aging



FRINGE PROJECTION

AEVA & DERMATOP SYSTEMS

- Anti wrinkles3D topography: in vivo or on replicas
- Retexturizing & plumping effect (overall roughness of the face by "radius of curvature" approach)
- Volume of the hollow cheeks
- Anti sagging effect

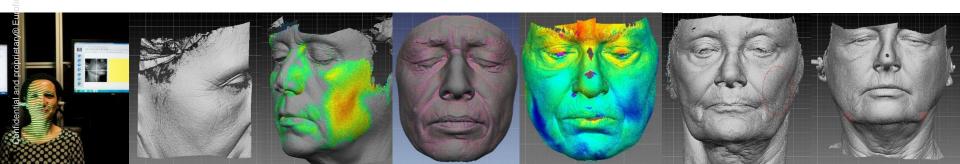
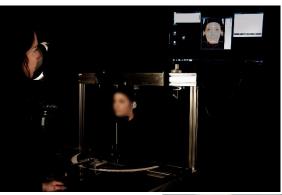


IMAGE ANALYSIS

Global 2D topography



Analysis of skin topography



CLINICAL ASSESSMENT

grading by trained experts in vivo or on photos



Anti aging

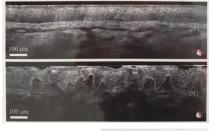


Global Expertise, Personal Tou

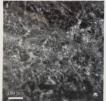
LC-OCT



Epidermis thickness

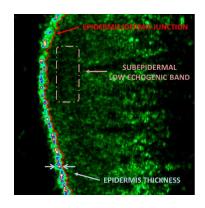


Collagen network



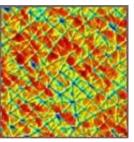
ULTRASOUND IMAGING

skin thickness & homogeneity measurement

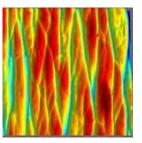


SKIN MICRO RELIEF

3D Microscopy



<30 years old



>70 years old

Anti dark circles



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IMAGE ANALYSIS

Analysis of the color intensity (due to eye-bags) or vascular or melanin component.



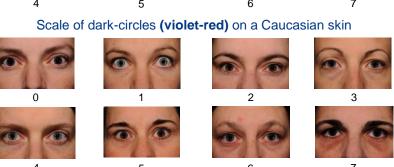


CLINICAL EVALUATION

on photos

Scale of dark-circles (brown) on a Caucasian skin





Anti dark spots



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IMAGE ANALYSIS

Colorimetric and morphological analyses of selected dark spots

Analysis of skin pigmentation homogeneity

Intensity of melanin component











Anti-pollution



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BIOCHEMICAL DOSAGES

Skin surface samples in polluted cities (Mumbai, Bangkok or Jakarta).

2 possible dosages:

- Levels of elements as heavy metals: V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Pb, As, Si et Ti
- Lipids alteration assessment



Anti-oily skin effect

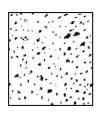


IMAGE ANALYSIS

Measured parameters from C-Cube images:

- Number of visible pores
- Total area of the pores
- Average diameter of the pores





Matifiying effect



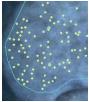


Before



Anti-sebum effect Focused on porphyrins by Visia-CR®





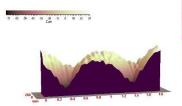
Anti-oily skin effect

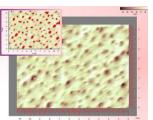


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FRINGE PROJECTION

Diameter of the pores on replicas

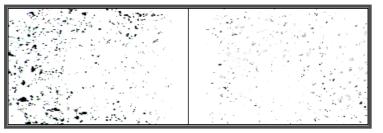




SEBUTAPE / SEBUMETER

Anti-sebum effect

Before treatment



After treatment



Immediate rate of grease measurement

Cell renewal

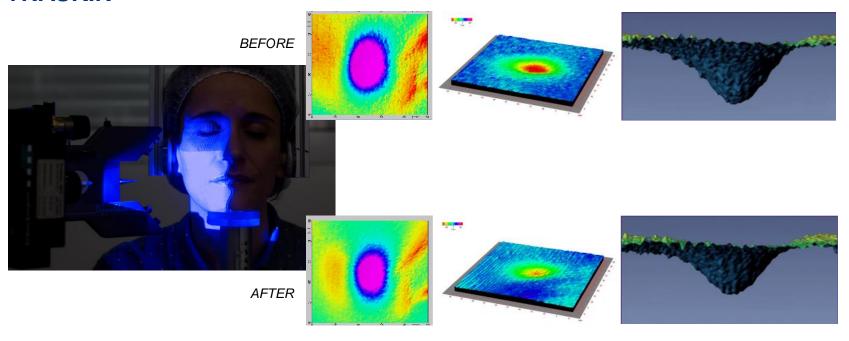


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DYNASKIN



... and also CUTOMETER and CLINICAL EVALUATION

« Healthy skin »

MICROBIAL IDENTIFICATION

Microbiome-friendly

- qPCR analysis
- Metagenomic analysis

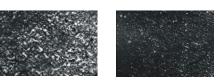


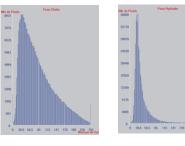
Moisturizing



Global Expertise, Personal Touc

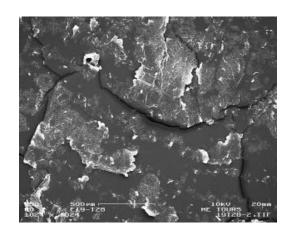
D'SQUAME





Dry Hydrated skin skin

ELECTRONIC MICROSCOPY



C-CUBE

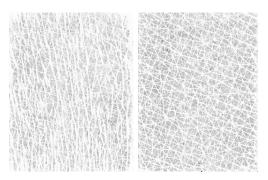


Moisturizing

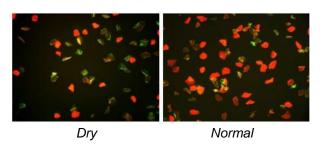


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MOISTUREMAP®



CORNEOCYTE MATURITY IDENTIFICATION



DISCOMFORT SIGNS

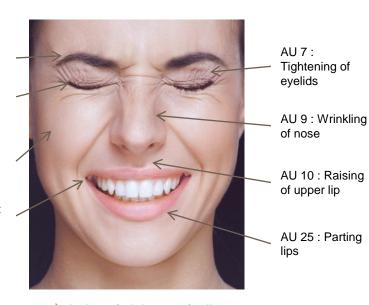
BY FACIAL EXPRESSIONS

AU 4 : Brow lowering

AU 43 : Closing eyes

AU 6 : Cheek raising

AU 12: Pulling at corner lip

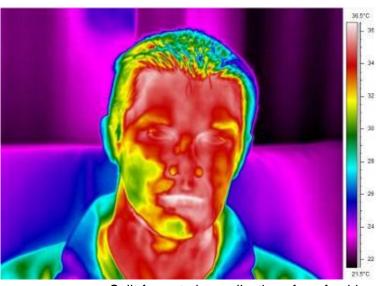


Index of tightness feelings

INFRARED THERMAL CAMERA

Split-face study, application of a roll-on with a refreshing effect





Split-face study, application of a refreshing after-shave product

Soothing – Sensitive skin



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BIOCHEMICAL DOSAGES

Skin surface samples : Interleukins



GALVANIC SKIN RESPONSE

Emotional test

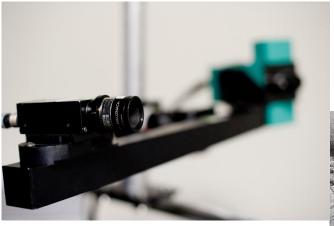


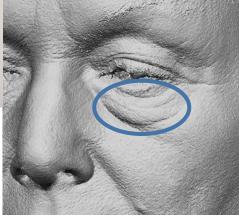
Under-eye puffiness



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FRINGE PROJECTION





Whitening & Tanning effect

IMAGE ANALYSIS

Caucasian skins for a tanning effect



Asian skins for a whitening effect



Charasteristic color of skin tone







Focus on complexion



Global Expertise, Personal Touci

IMAGE ANALYSIS

Complexion radiance - Radiance mapping



Anti rosacea – Analysis of the red component

By Visioface® or Visia-CR® and also SIAscope & mexameter



Skin Texture - Analysis of skin texture roughness
By Visioface® or Visia-CR®



CLBT METHOD

Complexion radiance

Calculation of a C.L.B.T index based on

- Colours,
- Luminosity,
- Brightness,
- Tranparency of the skin.



Focus on complexion



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SENSORIAL METROLOGY

Healthy glow effect

Measured parameters

- Colours of the skin: Pink-red, olive, tan (beige, apricot-coloured, blond colour and brown colour)
- Physical characteristics: luminosity, homogeneity of the skin and strain on the skin



Setting of the sensory metrology room



Structured scale of the Good complexion colours – Spincontrol



Analogical scales for "luminosity", "homogeneity" and "strain" evaluation

Focus on beard

HAIR TUNE (Sound analysis)

Softness

XPOLAR®

Damaged - Structural analysis (Keratin) by polarimetric scanner





BODY CLAIMS

Anti-dark spots



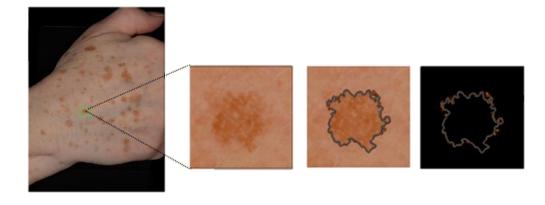
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IMAGE ANALYSIS

by Visioface®, Visioscan or C-Cube

Calculated parameters:

- Colour of spots
- Colour of skin
- Sharpness of the contours
- Total area of the spots (mm²)



Anti-dimples



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PROFILOMETRY 2D

Roughness of the dimples

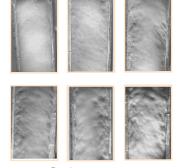
CLINICAL ASSESSMENT

Grading of the dimples

FRINGE PROJECTION

Roughness of the dimples

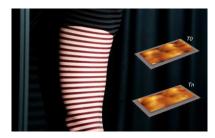
THERMAL CAMERA



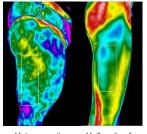
Roughness parameters or clinical evaluation



With pinching



3D topography



Heterogeneity of temperature

Uniformity of temperature

Firmness & elasticity



TORQUEMETER

CUTOMETER

DYNASKIN

CLINICAL ASSESSMENT



Hairs removal effect

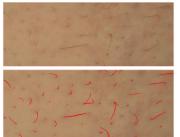


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IMAGE ANALYSIS

length & density measurements





SENSORIAL METROLOGY

softness of the skin





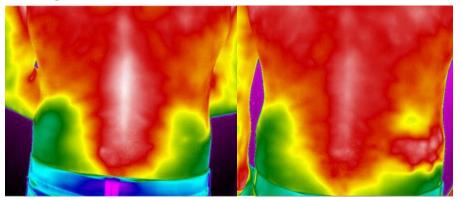
Heating & refreshing effects



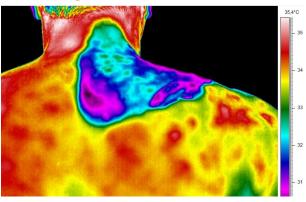
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THERMAL CAMERA

Heating effect

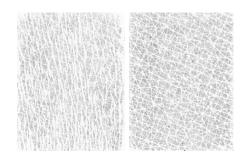


Refreshing effect

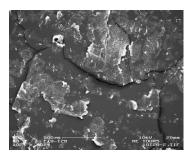


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MOISTUREMAP®



ELECTRONIC MICROSCOPY

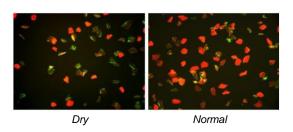


C-CUBE

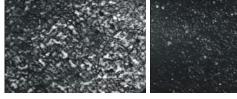




CORNEOCYTE MATURITY IDENTIFICATION



D'SQUAME



Dry skin Hydrated skin

LASER CENTIMETRY

Without contact



IMAGE ANALYSIS

Silhouette: area of thighs, arms & lower abdomen



ULTRASOUND IMAGING

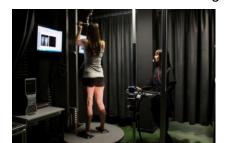
measurement of the adipose tissue thickness (on the thighs or the abdomen)





FRINGE PROJECTION

Abdominal slimming , « love handles » and thighs Volume of buttocks & saddlebags







Soothing effect



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IMAGE ANALYSIS

haemoglobin component analysis



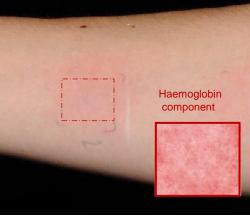
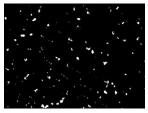


IMAGE ANALYSIS

- Anti-salt traces
- Anti-stichy sand
- Anti-sun cream traces



Salt traces analysis without product



Salt traces analysis with product

THERMAL CAMERA

on the area of irradiation

Infra-red protection



Tensing & Uplifting effect of the bust



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IMAGE ANALYSIS

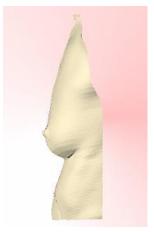
uplifting effect





FRINGE PROJECTION

volumizing & uplifting effect



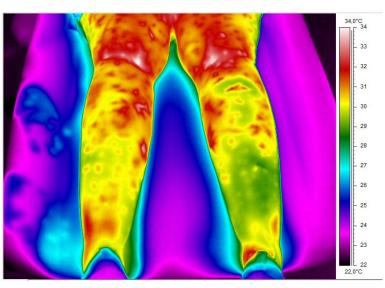


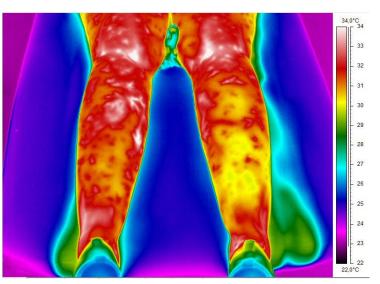
Tired legs



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THERMAL CAMERA





 $T+28 ext{ days}$

« Healthy skin »



MICROBIAL IDENTIFICATION

• C. acnes, Staph. aureus, Staph. epidermidis,...

Metagenomic analysis



« Antiperspirant »

DOSAGES OF ODORANT SUBSTANCES

- Standard sweating
- Emotional sweating / Social stress





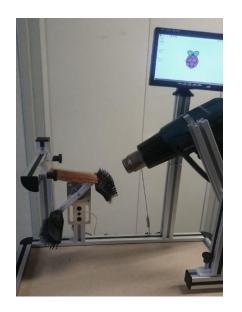
HAIR CLAIMS

Anti-breakage and split ends



SPIN SPLIT HAIR

on natural hair tresses (Caucasian or Asian)





Anti hair loss



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PHOTOTRICHOGRAM





Tn



Tn +48h

Anti frizzy



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IMAGE ANALYSIS

Controlled environment box (humidity & heat)







Anti grey hair



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IMAGE ANALYSIS

Covering effect





Anti Canities



POLARIMETRIC SCANNER

Melanin quantification







Global Expertise, Personal Touc

BIOCHEMICAL DOSAGES

Hair or scalp samples in polluted cities (Mumbai, Bangkok or Jakarta).

Possible dosages:

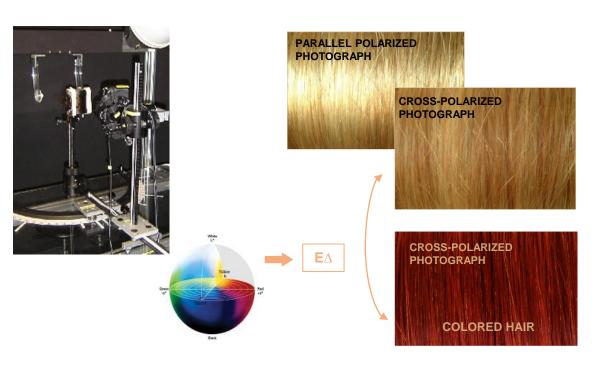
- Hair: levels of elements as heavy metals
- Hair: Lipids peroxydation (MDA)
- Hair: cysteine oxydation
- Scalp: squalene peroxydation

Color protection



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IMAGE ANALYSIS



Combing effect

HAIR TUNE





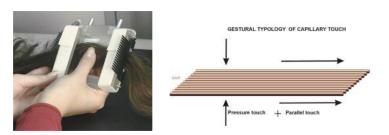
Dryness



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SENSORIAL METROLOGY

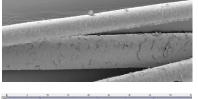
Expert panels – hair surface evaluation

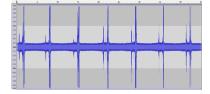




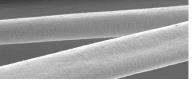
HAIR TUNE

the sound of hair





Dry hair





Treated hair

Eco-responsible cosmetics



BIOCHEMICAL DOSAGES

- Rinse water collection
- Rinse speed



Growth speed



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CENTIMETER MEASUREMENT



Hair sheen



Global Expertise, Personal Touc

IMAGE ANALYSIS

Specific protocol of damage/dull hair



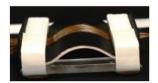






EXPERTS GRADING







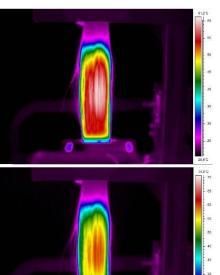


No sheen

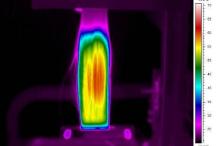
Maximum sheen

Heat protection effect

THERMAL CAMERA



Before treatment



After treatment



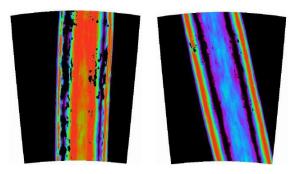
Keratin quantification



lobal Expertise, Personal Touch

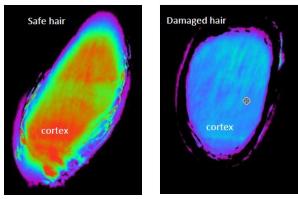
CONFOCAL MICROSCOPY

POLARIMETRIC SCANNER: XPolar®

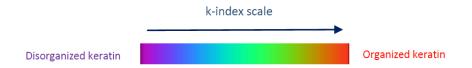




Images obtained using the K-INDEX analysis of the hair structure



Cross section view of the hair



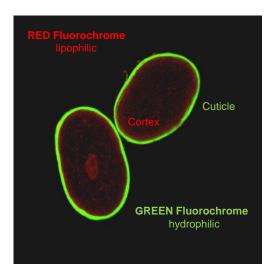
Permeability

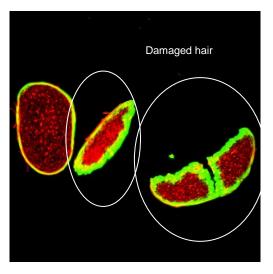


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CONFOCAL MICROSCOPY

Specific protocol of damage/dull hair



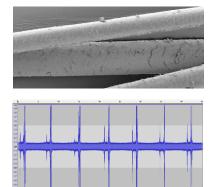


Salt-Chlorine-Sand Protection

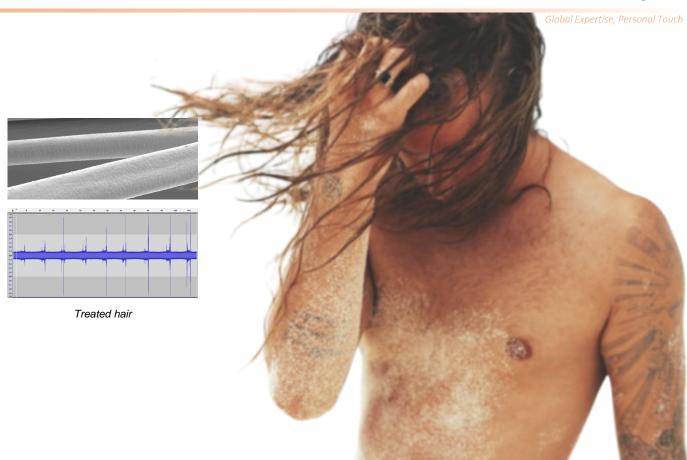


HAIR TUNE

the sound of hair



Dry hair



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Anti-sebum effect

SEBUMETER



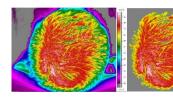
Anti-dandruff effect

EXPERT / DERMATOLOGICAL EVALUATION



Soothing effect

THERMAL CAMERA



GALVANIC SKIN RESPONSE



IMPLICIT TEST

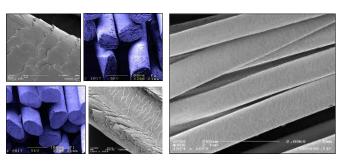


Smoothing effect



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ELECTRONIC & INTERFEROMETRIC MICROSCOPY

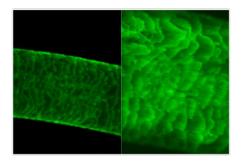




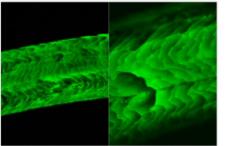




X-FLUO



NORMAL HAIR



DAMAGED HAIR

Styling / Fixation effect



IMAGE ANALYSIS









Thickening

LED IMAGE ANALYSIS...





Before Treatment

After Treatment



UV protection

BIOCHEMICAL DOSAGES

- Hair samples inside UV BOX: simulates the effects of sunlight with ultraviolet rays
- Dosage:
 - Total protein / Keratin



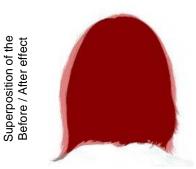
Volumizing effect



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IMAGE ANALYSIS







MAKE-UP CLAIMS



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IMAGE ANALYSIS

- Curling
- Lengthening
- Volumizing
- Separation
- Lash density
- Eye opening

CLINICAL EVALUATION

- Long lasting effect
- Waterproof/water resistant effect







BEFORE





















IMAGE ANALYSIS

Covering effect - Complexion homogeneity





Matifying effect



Parallel polarized photograph



Cross-polarized photograph



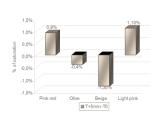
Difference between grey level photographs = only the skin shininess (negative image)

CLBT METHOD

Radiance







CLINICAL EVALUATION

Long lasting effect







Before

After

n hours

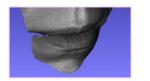
Lipstick



Lip relief analysis

FRINGE PROJECTION

In vivo lips acquisition, in 3 dimensions obtained with the Optocat software (Breuckmann, Germany- Eotech, France)







Long lasting effect

CLINICAL EVALUATION















Shininess aloss ratina















Moisturizing effect

CORNEOMETER



Acquisition on lips

IMAGE ANALYSIS





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FRINGE PROJECTION

roughness evaluation (on replicas)

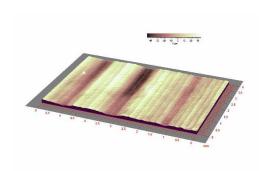


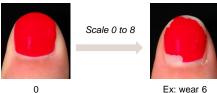
IMAGE ANALYSIS

Growth measurements



CLINICAL EVALUATION

Wear & chipping measurements



Ex: wear 6 Chipping 7



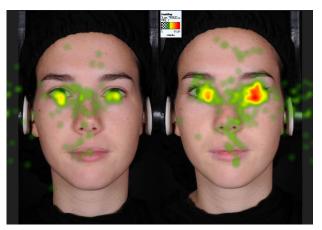
Make-up perception & removal



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EYE-TRACKING

Make-up perception - Make-up Impact



Without make-up

With make-up

IMAGE ANALYSIS

Make-up removal





Beyond cosmetics



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- ANSM (the French Health Products Safety Agency) authorized Spincontrol to carry out clinical and biomedical studies for:
 - Cosmetic products
 - Nutritional supplements
 - Medical devices (Class I and IIA)
- Assistance in submitting to the Independent Ethical Committee (IEC) and the ANSM

Food supplements allegations

- Against tired legs
- Anti-sleeping troubles
- Anti-stress & dynamising
- Beauty of the skin (anti-ageing, anti dark-circles, moisturizing, firming...)
- Painkiller
- Satiety
- Slimness
- Study of the hair & nails



Emotions and cosmetics



- Well-being/Emotions
- Consumer behaviour
- Sleep analysis





WHY EMOTION?

- Efficacy tests
- **Emotional design**
- Consumer behavior / Decision making
- Research





HOW TO ACCESS EMOTIONS?

- Cognition: Psychometric measures
- Behaviour: Behavioral/ethological analysis
- Physiological: Visceral component

Emotional studies

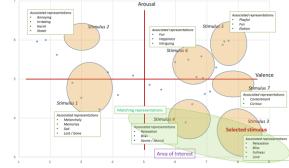


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VERBAL METHODS

SUBJECTIVE COMPONENT:

- Validated questionnaires
- Lickert-type scales
- Neurocognitive tests
- Implicit associations
- Structuration of free speech (text mining)



Factorial correspondence analysis after hierarchical classification – specitif terms / class

PSYCHOPHYSIOLOGICAL METHODS

VISCERAL COMPONENT:

- Electrodermal response (i.e. skin conductance)
- Skin temperature
- Cardiac activity (e.g. HR, HRV, BP,...)
- Respiratory rate
- Mydriasis
- Hormonal levels
- Electromyography
- Electroencephalography
- Brain imaging



BEHAVIORAL METHODS

BEHAVIORAL ANALYSIS

- Posture
- Gesture
- Facial expression
- Eye tracking
- Specific act
- Vocalizations

Emotional studies - Specific methods



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MIRROR TEST

- Behavioral and psychometric approach
- Auto & Allo perception evaluation

Attest and quantify the anti-ageing « emotional » benefits of products because chronological age is important, but the subjective age has a stronger effect

EMOSIGN®

Provide emotional signature of your product...

In addition to sensorial mapping to understand affordance processes

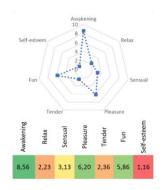
EMOIM®

Test your product by emotional 3D immersion

EMOCHAR®

Emotional characterization created by Emospin, scoring 7 main positive emotional:

- Awakening: focus, attention, stimulation
- Relax: serenity, relaxation, appeasing
- Sensuality: arousing, sexy, erotic
- Pleasure: liking, "gourmand", satisfaction
- **Tenderness:** gentleness, softness
- Fun: excitement, joy, enthusiasm
- Self-esteem: confidence, assurance



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Spincontrol

THANK YOU FOR YOUR ATTENTION