

zoom #3

BY SKINOBS

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Yippee! For over 1 year now, Skinobs provides methods and testing information to cosmeticians. Our vision is to continue to offer you loyal services to make claims easier to substantiate and help you to choose, day-to-day, the methods and CRO's suppliers. You will find the news on human **"tolerance" testing** section, useful information about **skin volume** measurements and all of our partner's news in instrumentation and testing facilities. Moreover, **slimming** being one eternal topic for testing managers, we will synthesize the present biometrological approaches.

Happy reading!
Anne Charpentier, CEO



We deeply thank our numerous partners for their attentive support, their active collaboration and their great confidence since the Skinobs launch. From France to India, from small to huge group and from classical approach to innovative one. We are really glad to share this success with you!

Skinobs, a worldwide platform for efficacy and tolerance testing

After referencing the major and standard devices and methods for the efficacy claims we are now continuing with the tolerance protocols. Our aim is to propose you a global approach of the on human testing field including the clinical test for all the tolerance aspects. You can find details about 13 various protocols:

- irritation or allergy
- phototoxicity and photosensitization
- comedogenicity, eye projection, etc.

You can have a look on the protocol description and identify the relevant CRO's.

As our approach remains always collaborative, you are welcome to send us your feedback or question about the content or the application at contact@skinobs.com.

What's inside?

Skinobs database is designed for cosmeticians involved in claims and substantiation and provides more than 114 method descriptions and more than 42 CRO's details.

3 main things to remember to accelerate your search:

- find a CRO in a specific country to implement your selected method
- go deeper with the advanced search and its 6 keywords [blue left menu]: Technology, Novelty, Results, Method, CRO's and Device manufacturers
- directly send a request to the CRO's of your choice

Just keep connected as we continuously reference new devices and CRO's. Our registration work is always under progress!

Statistics of Skinobs traffic

+1,100
REGULAR
USERS

+3,200
PAGE VIEWED
LAST MONTH

+5'45"
AVERAGE SESSION
LASTING

+62%
NEW VISITORS
LAST MONTH

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FACE VOLUME: BETWEEN AGING AND SAGGING

Throughout life, the biological and biochemical skin processes are influenced by multiple factors that are grouped together under the term exposome. These factors can be genetic, hormonal, muscular, psychological or climate and accompany irreversibly the aging of the skin. The more visible aging one is the sagging phenomena which impacts the face appearance. With the aging the face can lose 30% of its initial volume with the decrease of the skin thickness and the volume change of the lipids tissues, the muscles and even the bones structure.

What methods exist today to assess the performance of face sagging cosmetics?

The claims are linked with several face parts that are impacted: under-eye puffiness, cheekbones, hollow of the cheeks, cheeks, nasolabial fold, chin or oval of the face. The list of the claims is wide: **anti-sagging, anti-puffiness, decongestant, lifting, oval face, remodeling, pulping, resculpting...**

The devices can evaluate the cosmetics activity on the face morphology and more precisely the dermal-epidermal junction flattening, the epidermis anchoring with the dermis, the dermal matrix, the decrease and descent of the subcutaneous lipidic tissue and the oval.

Several devices can be involved in the skin sagging objectivation:

- **face morphology:** Photo bench, Vectra, Olé imager coupled with image analysis
- **face volume:** Fringe projection with Primos, AEVA-HE, Dermatop-HE
- **skin structure:** Ultrasound scanner, Dermascan, Dermcup
- **molecular level:** VivaScope®, Vivosight, MPTFlex, LabRam

With the advent of digital age, new skin cares will emerge. The «text neck», the wrinkle caused by the position of the head to the bottom, will have to be taken into account!

The AEVA-HE by Eotech evaluates the slimming and remodeling effects

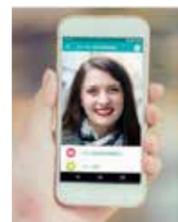


Introduced in 2012, the AEVA-HE/Visio-4D solution won relevance and efficiency in the measurement of change in volume or shape on the face or body parts. A specific 3D sensor is associated with a bench for face and body which ensures a good positioning and the reproducibility of the measures. The system is complemented by a software based on multiple views 3D reconstruction. It gives the most objective evaluation solution of the market of slimming or reshaping effects. It enables to quantify the volume differences before and after application, the surface differences, and finally circumferences on thighs or abdomen. The results illustrate with color and augmented reality the differences between before or referential and after measurement points. www.eotech.fr

New analyses of Skin Diag volumes by 'creative biometric'



From a picture, these analyses can determine the degree of digging of the cheeks on a score of 1 to 10, and evaluate the digging level in the tears valley and the degree of ptosis settling. The eyes puffiness is also detected. Those combined analyses allow to make a type diagnosis of the main volumes of the face. Associated with the 20 tests of the Skin Diag in real time, it can define a type of skin in a few seconds. These applications help the institutes or stores and can also be used for clinical testing laboratories. They are available on iPad. www.otstc.fr



IEC launches its new App dedicated to cosmetic evaluation, IEC Connected!

This connected App offers new perspectives of study design. It allows, from a simple selfie, a biometric analysis of more than 15 morphological and colorimetric parameters. Between objectivation and perception, this new evaluation tool on tablet and Smartphone propels IEC into the digital age to be even closer to the expectations of its customers and consumers. It provides a live time analysis for a real added value to the efficacy proof of anti-aging products or make-up. This is a new way to confirm perceived effects in the new environment of connected consumers [extreme conditions, 12 and 18 hour-lasting, effects on waking, etc.]. www.iecfrance.com

Zurko Research has new premises for skin expertise



The lab assesses the safety and efficacy of a wide range of cosmetic, cosmeceutical and medical devices, including ingredients. The Spanish CRO counts with a large volunteer's database organized for every type of test in specific categories: skin type, sensitive, atopic, prone to acne, halitosis... In its new premises the Lab

has now specialized rooms to respond to the different client needs for: SPF testing, water resistance, aerosol, sniff-tests, temperature rooms for antiperspirant, etc. Zurko Research has added a room for professional photography to answer marketing approach. The CRO develops its know-how in innovative claims such as anti-pollution, sand adherence, eyelash volume.... www.zurkoresearch.com

Biophyderm coupled clinical studies and acceptability questionnaire



In-use tests should be performed on all cosmetic products. Indeed, they enable the use of the finished product in real conditions on healthy volunteers selected in Biophyderm's large panel according to specific study criteria. These clinical studies represent 70% of our yearly activity. Their length is adapted to the product type, from 14

days for soaps to at least 28 days for anti-aging products. At the end of each in-use test, a psycho-sensorial acceptability questionnaire is handed to each subject involved in the study, as their outcome is a great source of claims for marketing. At the end of the test period, a tolerance assessment, combined with a scoring of the clinical effects can be done by either a dermatologist, a gynecologist or an ophthalmologist. www.biophyderm.net

SLIMMING MEASUREMENT: ALWAYS IN THE RACE

Slimming by Skinobs



57 METHODS



38 CROS
25 COUNTRIES



26 DEVICE
MANUFACTURERS

The slimming cosmetics creams, gels and serums represent the second body most popular cosmetics after the moisturizing products. Each spring comes with new textures, new claims and active ingredients. Their mechanisms of actions are various to make the legs, the buttocks, the stomachs thin and narrow. This cosmetics category is represented by a wide list of claims such as: **slimming, anti-cellulite, anti-heavy legs, draining, moisturizing, firming, refreshing, warming, remodeling and resculpting** among others.

Those claims allow different actions on **the skin structure, the subcutaneous lipids and the vascularisation**. Most of the methods can support the slimming claims, and some of them with a precision of 140µm such as with the AEVA-HE as Eurofins precised. Controlling the subject weight, these tests can be always associated with consumer insights, use-tests, QOL questionnaires or Emospin and clinical evaluations.

- **Global body:** centimetric measures, Visio 4D® bench, laser
- **Volume and silhouette:** AEVA-HE, Photo bench, Vectra 3D, Bodyscan 3D
- **Size of the hypodermis:** DUB®SkinScanner, Dermascan, Dermcup
- **Aspect of the cellulite and "orange peel":** DermaTOP, Antera 3D, Videometer
- **Tonicity of the skin:** Dynaskin, Cutometer, Ballistometer, Cutiscan
- **Localized temperature:** Evatherm, FIR thermal camera, thermometer
- **Effect on the vascularisation:** Laser Doppler imager or frequencer, Tivi 700, Tivi 8000
- **Lipocytes aspects:** Vivascope®, MPT Flew, Vivosight

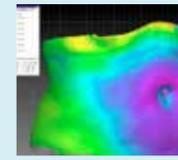
It seems that the slimming claims should be evaluated with a multi-testing approach, depending of the products formulation and target actions. **The illustration of results** with augmented reality is a must when coupled with figures and the **centimetric reduction is an immutable classic**.

Idea Clinic evaluates the thermoregulatory effect



Thanks to an infrared camera FLIR P640 that produces high-quality images and allows the capture of the smallest details and temperature differences, it is now possible to measure the warm or cold effect of a cosmetic product and its evolution over time. This is a methodology for measuring clinical efficacy, perfectly adapted to the «heating effect» claims for massage or slimming gels. The method is dedicated to "firestop" cream for skin redness and refreshing heavy legs, also to the "ice" effect of decongestant eye gel or "fresh boost" of tinted fluid. www.groupeideatests.com

Cerco is studying volumes



For the slimming testing, Cerco favours the volume measures. Thanks to the fringes projection and an AEVA-HE bench (Eotech) dedicated to these evaluations, it is possible to reconstruct an entire part of the silhouette, whether it's abdomen, thighs or buttocks. Analyses enable to measure volume variations of the studied areas before and after treatment by superposition of the images. The results combine scientific measures and visual representations through 3D reconstructed images. The purple area highlights the loss of volume of the subject. www.cercotests.com

Spincontrol helps promote healthy skin



After being the first laboratory to measure the complexion radiance, Spincontrol is now focused on the concept of healthy skin. Clinical evaluation and image analysis allow a scientific quantification of skin homogeneity and radiance. Cutaneous microbiota protects our skin against infections and inflammations and needs to be preserved. The microbiota composition, unique as DNA profile for each human being is influenced by various factors: age, gender, environment, etc. Spincontrol is associated with one of its partners to provide a unique and multiparameter protocol, allowing proving preservation of the cutaneous microbiota. www.spincontrolgroup.com

New partners key figures

5

clinical facilities in Europe for Eurofins

25

years of clinical testing by CRL-LLC

268

samples for the large lipidomic study by Lipotype

300

clinical trials completed in 9 years at C.L.A.I.M.S

1,000

m² of testing area for Zurko Research

20,000

studies implanted per year at Idea

50,000

Korean subjects in Ellead database

Agenda



2ND SCIENTIFIC DAY FOR SKIN TISSUE ENGINEERING
CED and SFBMEc
Lyon - May 16, 2017

Optimization, conservation and vascularisation of 3D skin models: news and applications. www.ced-lyon.com



COMET SYMPOSIUM
Cergy-Pontoise
June 6-7, 2017

The unique scientific event dedicated to Cosmetic Measurement & Testing and organized by the Cosmetic Valley. www.skinobs.com/news

Follow the cosmetics testing news:
www.skinobs.com/news

VivaScopes®, a “window into the skin”



Near-infrared light is emitted and reflected by different components of the tissue. This innovative imaging process provides a non-invasive view into the epidermis and superficial dermis. VivaScopes® makes it possible to depict painfree cellular structures of living tissue in real-time and without the need for complex preparation protocols and without biopsies. This method allows researchers to document skin changes in a skin area of up to 8 mm x 8 mm precisely and quickly. Therefore, an analysis of the action modes and the efficacy of cosmetics and pharmacological substances can be performed and repeatedly without affecting the tissue. For example, melanin caps of the basal cells very contrasted can be easily quantified. Melanin concentration, even with very minor changes, can be measured using the dedicated software ConfoScan. www.vivascope.eu

The largest skin lipidomics study for personalized cosmetics



The largest lipidomics study analyzing skin lipids in more than 250 skin samples has been published in “Scientific Reports” [Sadowski T. et al. 2017, doi: 10.1038/srep43761]. It applied a novel Skin Lipidomics Technology Platform developed by Lipotype, a German Max-Planck-Institute spin-off which ensures the coverage of 16 lipid classes, the total quantification to the level of individual lipid molecules and an excellent reproducibility and high-throughput capabilities. Results showed among others that the skin lipidome varies with respect to depth, site, age and subject. This variation seems to be driven,

mainly by secretion of sebaceous lipids and this finding could have an intriguing impact on cosmetics development. This lipid measure can assess all products with lipid metabolism influence (microbiome, lipidome...). Results also reveal a high inter-individual variation, which could become the basis for the development of personalized cosmetics.

www.lipotype.com

DermScan looks into photoaging



Photoaging shows “changes developed after many years of cutaneous exposure to non-extreme and low doses of UV radiations”. Objective and reliable characterization of the degree of photodamage is important to evaluate the treatment effect which can be either preventive or curative. To demonstrate the activity of the products on such process, long term studies must be conducted. DermScan offers multiple approaches that can be combined to demonstrate the product efficacy on: biomechanical properties, density, relief, isotropy, pigmentation, vascularization, moisture, barrier function... Biochemical analysis of non-invasive superficial samples can provide information

on the oxidative damages measured on lipids, proteins, enzymes as well as on the inflammatory status (interleukins). www.dermscan.com/photoaging-how-to-assess-it

Eurofins reinvents clinical assessment of make-up cosmetics



Eurofins' clinical laboratories, headquartered in France and with strong presence in Europe, has developed a wide range of out-of-the-box protocols to measure the performance of make-up cosmetic products. Lasting over time is objectively measured with high resolution image analysis and by trained beauticians. Resistance of make-up products to environmental conditions is evaluated: kiss-proof lipsticks, sweat-proof foundation, sea water, swimming-pool water, rain... Embellishment can even be measured, thanks to an innovative protocol which enables scientific measurement of lengthening, curving, volumizing, “eye-opening”, radiance, etc. Eurofins also proposes effects substantiation like protection against SPF, pollution, cold, dryness, etc. Each claim is thoroughly studied to be

substantiated in the most relevant and “marketing friendly” way. Eurofins teams do not forget make-up removal products and offer innovative tests for their performance assessment. www.product-testing.eurofins.com

Ellead offers one-stop solution for Asian clinical testing



With 10 specialized studios and 35 test rooms, Ellead is the largest cosmetics CRO in Asia which offers wide range of efficacy and safety testing services, in vivo and in vitro, for cosmetics, quasi-drugs, functional food, hair products and personal care products. All clinical studies are supervised by two dermatologists to assure safety and quality, and its own institutional review board (IRB) ensures an ethical conduct of all research. The lab internationally renowned was nominated by Korea Ministry of Food and Drug Safety (MFDS) to establish Cosmetics Efficacy Evaluation Guidelines for SPF of water resistant sunscreen, PA +++, dark circle, acne-prone skin, swelling,

micro-circulation and more. Recently the company has acquired Good Laboratory Practice (GLP) certified by Korea MFDS for In vitro skin irritation: Reconstructed Human Epidermis Test Method [OECD guideline TG439], an alternative test method to animal testing. And with the air pollution age, Ellead provides anti-dust and anti-adsorption testing protocols. www.ellead.com

They have placed their trust in us

Académie - Aesop - Aiglon - Seppic - Akott - Ales Groupe - Alpol - Aseptia - Avon - Basf - Bayer - BCM - Beiersdorf - Bioderma - Biolie - Boots Bulgari - Capsum - Cattier - Chanel - Clariant - Clarins - CLR - Codif - Coptis - Cosmebio - Coty - Croda - Dipta - DSM - Dupont - Evonik - Expanscience Exsymol - Fiabila - Filorga - Arome Pacific - Galderma - Gattefosse - Greentech - Givaudan - Groupe Bateau - Panther - SVR - Guerlain - Hermes Hormeta - Idbio - Inderma - Ingrid-Millet - Isdin - Johnson & Johnson - Kanebo - KDC - Kialab - Kobo - Laboratoire Gilbert - Laboratoires Genévrier - Laboratoire Rivadis - Lea Nature - Lipoid - Lipotec - L'occitane - L'oréal - Make up for ever - Marionnaud - Mavala - Merck - Mibelle Multaler - Naos Natura - Naturex - Nikkol - Nuxe - Omega-pharma - Oriflame - Payot - Procter & Gamble - Philips - Pierre Fabre - Provital Puresentiel - Rahn LVMH - Romy-paris - Rossow - Sanofi - Sederma - Sensib - Sephora - Shiseido - Shoys - Sical - Silab - Sisley - Solabia Sothys - Strand - Symrise - Syntivia - Thalgo - Thor - Version Organique - Weckerle - Yves Rocher - Yves Saint Laurent...

C.L.A.I.M.S, an ISO certified expert for safety and efficacy evaluation



C.L.A.I.M.S Pvt. Ltd is an ISO 9001:2008 certified CRO providing evaluation of safety and efficacy for cosmeceutical, dermatological and

OTC products. It is specialized in skin, hair and body care for claim substantiation across the globe. It was formed about a decade ago by experts in the field of clinical research, dermatology and cosmetics. Over the years, new protocol development and validation is the integral part in the evaluation process. Understanding the product features and customer requirement is the focus and C.L.A.I.M.S gives utmost importance to minute technical details before proposing the trial design. The CRO believes in participating and organizing technical seminars and business events. Last year, a technical workshop was organized jointly with UBM in New Delhi, then a scientific seminar “To and Thru the skin” with internationally renowned speakers. Authoring numerous articles, research publications and books chapters are credentials to C.L.A.I.M.S. Other business associates are HelioScreen France, Orion France, Aytton Global Research UK, Media Medic communications India. www.claimscro.com

CRL-LLC certified Good Clinical Practice



Clinical Research Laboratories, LLC operates as an independent contract laboratory providing a wide range of clinical safety and efficacy testing to the cosmetic, beauty

products, personal care and pharmaceutical industries. The CRO is now GCP certified for the clinical studies in pursuance of U.S. Foods and Drug Administration CFR and ICH for Good Clinical Practice Guidelines. Located in central New Jersey, CRL is dedicated to human clinical testing for safety and efficacy evaluations. Its clinical expertise is focused in the areas of dermatology, photobiology, ophthalmology, bioinstrumentation, microbiology... CRL-LLC is now GCP certified for the conduct of clinical studies in pursuance of U.S. Foods and Drug Administration CFR and ICH for Good Clinical Practice Guidelines. Clinical Research Laboratories aspires to be the independent laboratory of choice for in vivo clinical testing. The staff will work individually with each client to develop a customized testing program that meets the client's study goals within their specific budgetary requirements. www.crlresearchlabs.com

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