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CODIF
Technologie naturelle

N°2

2nd Semestre 2016

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EDITO :

Even if the natural trend is undeniable and should guide our developments, it is clear that this covers a very wide range of subject matter: from simple water extraction to 99% purified molecules through a green process.

This is why CODIF TN defends and works ceaselessly on the marriage between technologies and natural. Enzymatic

extraction more than 15 years ago already, supercritical CO2 extraction 10 years ago, microwave-assisted extraction, fermentation, Lamellar Water Technology, **HTAC**... and many others in development, as proof of our commitment to what are called "green technologies". It is only through this difference that we position ourselves as constant inventors of processes that enable **"working in partnership with nature"** rather than exploiting it.

Romuald VALLÉE
Scientific Director

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TECH NEWS...

The technologies: Blue or green...
more than ever at the heart of our DNA

HTAC, NEW PATENTED TECHNOLOGY

HydroThermolyse ACcélérée par CO₂ supercritique

Since the acquisition of Hitex at the end of 2013, Codif has been working on the growing potential of supercritical fluids as new extraction vectors. HTAC technology: HydroThermolysis Accelerated by supercritical CO₂ is a new depolymerization technology that does not involve either acid or solvent. Totally clean, it is green and enables a quasi-surgical depolymerization with a high degree of reproducibility. Only recently patented, HTAC technology is already distinguishing itself in the manufacture of our latest EARLY BOOST ingredient.



SUSTAINABLE COSMETICS SUMMIT: MARINE EXPERTISE GOES GREEN

intelligent and sustainable processing methods of marine resources



At the last European Edition, which was held in Paris last October, Codif shared its vision of green and innovative cosmetics through "intelligent and sustainable" processing methods of marine resources. Sourcing and processing technologies now enable us to produce hitherto unseen plant-derived molecules. The best example being the production of plant taurine thanks to the specific cultivation methods of the alga *Jania rubens*. This energizing amino acid, made famous by a major brand of energy drink, was up to now only available through processes of synthesis or extraction of products of animal origin.

[Click here to access of the presentation](#)

GREEN COMMITMENT GIVEN VALUE:



Recently engaged in the EcoVadis evaluation procedure, Codif was ranked in the TOP 9% of suppliers evaluated in 2016 by EcoVadis and was therefore awarded a silver rating for its efforts in favor of sustainable development. EcoVadis operates the first collaborative platform allowing companies to assess the "sustainable development" performance of suppliers for global supply chains. In this context, EcoVadis has developed a "Supplier CSR Rating system", which is based on 21 criteria and 4 themes, (Environment, Equitable Work Conditions, Business Ethics, and Supply Chain).

IN COSMETICS ASIA ON AN URBAN THEME

During this edition, Codif proposed solutions for city dweller skins with a hectic pace of life with its new energizing / anti-aging EARLY BOOST ingredient and the CITYGUARD+, EPS WHITE and PHYCOSACCHARIDE trio presented in the Spotlight On Pollution zone to preserve the skin from harsh environmental factors in urban environments.

[Go on www.codif-tn.com](http://www.codif-tn.com) to discover these active ingredients.



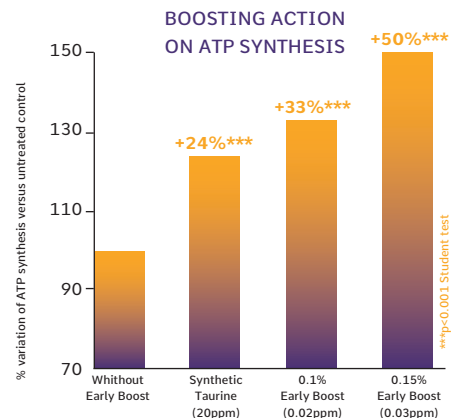
THE NEWEST INGREDIENTS...



Energising / Anti Ageing
The first ingredient
based on vegetal Taurine



Early Boost combines plant taurine extracted from *Jania rubens* with an oligofurcellaran obtained by a unique, patented technology: HTAC technology. This "supercomplex" acts like a bodybuilder for the fibroblasts. For an immediate moisturizing, anti-fatigue, restructuring and anti-wrinkle effect.

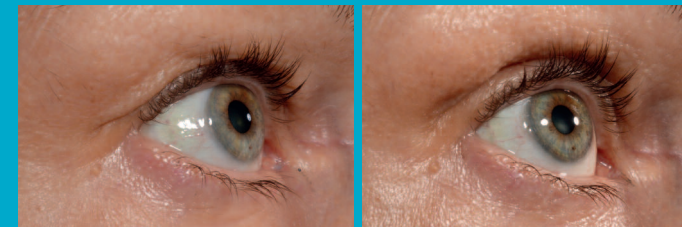


CITYGUARD+

A solution for tired and stressed looks. Tone, heavy bags and sagging, wrinkles under the eyes, youthfulness of the look...

Cityguard+, an anti-aging and anti-pollution product to treat slackening around the eyes. New results have shown that in addition to having an effect on the puffiness and fine lines of the eye contour, Cityguard+ acts on the upper eyelids:

After 28 days of treatment, the eyelids are tightened and lifted.
+4%* on average compared to T0 and up to +20% (*p<0.05 Student's t-Test)



D0

D28

SKINPERF LWG NEW RESULTS AT PH5

This ingredient promotes skin renewal by gradual diffusion of AHAs without the irritating effects. It is the new AHA complex suitable for all skin types, even the most sensitive.

Previous clinical tests were conducted in a pH 3.6 cream.

New clinical tests carried out in a pH 5 cream showed a decrease:

In the intensity of dark spots: -28% on average, up to **-67%**.

In the number of recent acne scars: -43% on average, up to **-75%**.

In the number of blackheads: -59% on average, up to **-100%**.

IN OUR RADAR...

SMART BEAUTY

Cosmetic have become smart, connected and personalized

Intelligent cosmetics guarantee products at the cutting edge of science, which includes the needs of the skin in real time while combining dream & reality, dream with new textures and very sensory, and then reality with unprecedented ingredients that are confirmed by tests and patent filings.

OUR SOLUTIONS

EPIDERMIST: Reactivates moisture memoru, can impart moisture alone.

HYDRANOV: Adjust to the environment

CORNEOSTICKER DS: An anatomical and physiological bandage

BE INSPIRED... THE SLEEPING PACK/MASK

At night the skin is more receptive to care.

Asian people give importance to the "Golden Time", there are the 3 first hours of sleep, between 11 p.m and 2 a.m, during which the skin regenerates in depth. The sleeping mask envelops the skin and releases the active ingredients in the various layers of the skin throughout the night.

This is a night mask (hence the name "sleeping") from Asia which offers a gelly texture, rich in water, soft and not sticky. All in one product with several claims (moisturizing, revitalizing, energizing, detoxifying, anti-ageing...).

OUR SOLUTIONS

PHEOHYDRANE : Moisturizing

PHYCOJUVENINE : Oxygenating

PHORMISKIN BIOPROTECH : Unification of complexion

EVERYONE WILL BE TALKING ABOUT IT... NEUROCOSMETICS

NEUROscience, NEUROmarketing, NEUROgastronomy, NEUROcosmetics...

In our brain 90% of our mental operations are unconscious*

A study was conducted on people, to taste a baguette with a crunchy background noise. Then to taste the same baguette without background noise. The people questioned preferred the first baguette, which according to them was more "tasty" .

If you touch something hot or itchy, what will you do? You immediately remove your hand! This information "withdraw your hand" is provided by the sense of touch and analyzed by neurons directly into the skin before being transmitted to the brain.

In our skin 30 to 40% of the thickness of the epidermis is controlled by cutaneous innervation.*

Close contact between nerve fibers and skin cells has been observed. Neurocosmetics are becoming a new anti-aging strategy.

OUR SOLUTIONS

NEUROGUARD : Unique protection to slow down the ageing of skin cells, maintain an optimal cell-to-cell communication and reactivate collagen and elastin synthesis.

NEUROLIGHT : Neuro-active solution to treat dark spots which inhibits melanin synthesis triggered by neural factor and stress

*www.inexplique-endeat.com/article-le-pouvoir-de-l-inconscient.

*Dewolfchem.com



EARLY ENERGIZING GEL

Formulated with **EARLY BOOST**

Phase	Chemical Name / Trade Name	INCI name	%
A	DEMINEALIZED WATER	Aqua	89,087
	RED SOLUTION CI:1720 1 POURCENT	Aqua & CI 17200	0,283
	ELESTAB CPN	Chlorphenesin	0,27
	EDETA BD	Disodium Edta	0,10
	PHENOXYETHANOL	Phenoxyethanol	0,66
B	CARBOPOL ULTREZ 10	Carbomer	0,25
C	SODA (SOLUTION 5 N)	Aqua & Sodium Hydroxide	0,25
D	ZEMEA	Propanediol	3,00
	POLYGLYCOL 6000 S	Peg-150	1,00
E	FRAGRANCE	Parfum	0,20
	SP PROCETYL AWS MBAL LQ – RB	Ppg-5-Ceteth-20	0,70
F	COVABSORB EW	Ppg-26-Buteth-26 & Peg-40 Hydrogenated Castor Oil & Ethylhexyl Methoxycinnamate & Aqua & Butyl Methoxydibenzoylmethane & Ethylhexyl Salicylate	0,20
	EARLY BOOST PE	Glycerin & Aqua & Phenoxyethanol & Sodium Carrageenan & Jania Rubens Extract & Ethylhexylglycerin	1,50
G	COVACRYL MV60	Sodium Polyacrylate	0,50
	GLYCERINE BIDISTILLEE CODEX	Glycerin	2,00

Operating Mode

- Heat Phase A to 75° C with slow stirring.
- Leave B to moisturize on the surface of A without stirring for 10 minutes then stir under emulsifier 1500 rpm for 20 minutes.
- Allow to cool to 40° C with gentle stirring.
- Add the materials of E one at time with gentle stirring for 5 minutes.
- Add the pre-mix F then G with gentle stirring for 5 minutes.
- Add the pre-mix H under emulsifier 1500 rpm for 20 minutes.
- Let it rotate with gentle stirring for 10 minutes.
- Check the pH.

HD PERFECT CREAM

Formulated with **SKINPERF LWG**

Phase	Chemical Name / Trade Name	Nom INCI	%
A	NIKKOMULESE LC	Behenyl Alcohol & Stearyl Alcohol & PEG-20 Phytosterol & Cetyl Alcohol & Phytosterols & Glyceryl Stearate & Hydrogenated Lecithin & Caprylic/Capric Triglyceride & Tocopherol	5,000
	CRODAMOL GTCC / MIGLYOL 812 / WAGLINOL	Caprylic/Capric Triglyceride	2,000
	SILICONE (DIMETHICONE (100CS))	Dimethicone	0,500
	PHENOXYETHANOL	Phenoxyethanol	0,800
	ARLAMOL HD	Isohexadecane	3,000
	LANOL 99	Isononyl Isononanoate	4,000
	LANETTE O	Cetearyl Alcohol	2,000
	ALCOOL CETYLIQUE / LANETTE 16	Cetyl Alcohol	1,000
B	AROLEAT SAMPHIRA	Caprylic/Capric Triglyceride & Hydrogenated Vegetable Oil & Crithmum Maritimum & Benzyl Alcohol & Limonene	1,000
C	DEMINEALIZED WATER	Aqua	64,918
	ELESTAB CPN	Chlorphenesin	0,270
D	SEPIPLUS 400	Polyacrylate-13 & Polyisobutene & Polysorbate 20 & Sorbitan Isostearate & Aqua	0,150
E	DEMINEALIZED WATER	Aqua	10,000
	SKINPERF LWG	Aqua & Glycolic Acid & Lactic Acid & Sodium Magnesium Silicate & Citric Acid & Xanthan Gum	2,000
F	PARFUM FLEUR D'EAU R21886	Parfum	0,100
G	SODA (SOLUTION 5 N)	Aqua & Sodium Hydroxide	0,262
H	STRUCTURE XL STARCH	Hydroxypropyl Starch Phosphate & Aqua	3,000

Operating Mode

- Heat A to 75° C.
- Just before emulsifying add B to the fatty phase (A)
- Heat C to 75° C.
- Disperse the Sepiplus 400 under emulsifier 1500 rpm for 10 minutes.
- Make the emulsion by introducing the fatty phase (A + B) very slowly (in portions) into the aqueous phase (C + D) under emulsifier at 2500 rpm for 10 minutes.
- Leave to cool to 35° C under the blades
- Add pre-mix E.
- Add the elements from phases F and G.
- Add the Structure XL Starch under emulsifier at 2500 rpm for 15 minutes.

UPCOMING EVENTS...



COSMETAGORA

(PARIS)

January 10 and 11th, 2017 - stand 113

PCHI

(GUANGZHOU)

February from 21 to 23, 2017

IN COSMETIC

(LONDON)

April from 4 to 6, 2017 - stand EE48