

NæOLYS

NATURE EXPANDED



Naolys, innovation through plant cell culture

Naolys is a company of the 21st century, the century of networks, globalisation and biotechnological revolutions in the industry. To create cosmetic actives of tomorrow, from a sustainable raw material, vegetal, we use our beliefs and our will to imagine the future.

At the beginning, a patent

Naolys was born in 2003, after Mr Ennamany, its founder, put a patent on plant cell culture. As Naolys controls this technology, it can create active plant cells from thousands of different plants.

Since its birth, Naolys focused on efficacy, safety and the preservation of environment - values derived directly from its technology. In a non stop moving market, they constitute points of reference, which make us transform environmental constraints, like the rarefaction of the fossil energy or of some vegetal species, into efficient and ecological products. Because Naolys doesn't stop creating new plant cell strains and revealing unreleased activities, thanks to its savoir-faire as regards molecule orientation in plant cells.

Today, unlimited capacities of production

In 2008, Naolys moves to a new site, which allows to manufacture many tons of plant cells per year. Cells are produced according to the reception of orders, very quickly, but with respect to plant cell metabolism. As it is highly flexible, the production system can't be overloaded: Naolys never produces in excess, but, on the contrary, always produces the required quantity.

In this catalogue, you will discover a large range of original actives created from precious vegetal species, actives that will make your next cosmetic lines unique. Welcome into the world of Naolys!



Actives: active plant cells

Naolys active ingredients are active plant cells with special characteristics, especially active and especially respectful of nature and of skin. Both unique in the world and produced in high quantity, they contain all the richness of the vegetal species from where they come. They preserve the nature around us in their own way.

Cells from a biotechnology without any genetic engineering

The biotechnology respects the environment and biodiversity because it doesn't need any culture in fields; only a taking of a few millimetres on the plant is enough to develop cells. Because it is a cell culture, not a plant culture: it is a plant cell culture. This biotechnology enables to develop active plant cells from rare and precious plants, legendary or unknown, difficult to cultivate, but always efficient.

One vegetal species, many active ingredients

From only one vegetal species, there are many effects. Because active plant cells contain many active molecules, called phytoalexins, which enable to get many effects. Depending on the direction of the phytoalexins production, it is also possible to get the level and the specificity of the effect. Mixing different types of active plant cells in a single product enables to obtain both active and original effect.

Pure and technical cells

The composition of active plant cells from different vegetal species contains only natural elements, that means molecules that only the species can synthesize. Active plant cells contain no molecules from pesticide or fertilizer. Thanks to their development place, laboratory, and their production conditions, a biotechnology in a clean atmosphere, with controlled hygrometry and luminosity, cells are exposed to no atmospheric pollution. So these are active plant cells produced thanks to mastering of a few natural growth factors, with active molecules originally produced by the vegetal species.

Clean ingredients

Active plant cells, like any vegetal product are biodegradable products. As Naolys delivers the exact quantity of needed product to manufacture finished products, it minimizes the packaging of our products (recyclable plastic).



Our commitment: a respectful efficacy

Since its creation, Naolys has defined a fundamental principle about the activity of its products: activity with a controlled efficacy respectful of skin physiological balance. All the actives are also in vitro tested on reconstructed epidermis and keratinocytes or /and fibroblasts or /and adipocytes culture. Some of them have been also clinical tested made with well known techniques (for instance, the measure of wrinkles is made by analysis of cutaneous prints).

A tested and controlled efficacy

Efficacy with a little concentration: the in vitro testing for each product is made with different amounts of active ingredient. For each product, effect appears with a very little concentration: starting at 0.5% for the dispersion form and starting at 0.1% for the powder form.

Controlled efficacy: for each product, Naolys indicates the limit of the concentration beyond which the product can lose its efficacy.

A respect of skin composition and metabolism

Naolys respects skin in full and respects all skintypes.

- Because cells are not allergenic. For each cell type, a certificate with the different doses of allergens will be given
- Because, depending on the type of activity and its intensity, Naolys checks with control testing that this proven activity doesn't generate any disruption in the biochemical skin system
- Because Naolys refuses to develop products that may modify the skin ecosystem

Naolys principle: to enable skin and all its physical and chemical elements to fulfil their functions within the context of a stabilized normal activity, the one of an adult skin in great form, which knows how to defend itself and to protect itself.



Technical and sales information

Naolys will send you samples you would select, on request, with technical information. If you have any question on the activities of our products, their integration in your formulae, please contact us or consult our website: www.naolys.com.

Forms of the products and recommended concentration

Every Naolys active product can be used from 4 forms, to be selected according to the galenic of your finished product: they provide the creation of a complete range of skin care or colour products.

They are completely preservative FREE.

- Lyophilized and grinded cells: 100% cells. A fine powder to get introduced starting at 0.1% into your formula. The colour, beige shades, changes according to the vegetal species and the elicitation applied to cells
- Cells dispersed or sonicated in vegetal glycerin (including organic glycerin): 20% cells, 80% vegetal glycerin. To get introduced starting at 0.5% into your formula. Ecocert or COSMOS registration on demand
- Cells sonicated in sunflower oil: 20% cells, 80% sunflower oil. ECOCERT or COSMOS registration on demand. To be used starting at 0.5% into your finished product

Order and advantages

Thanks to the performances of its biotechnology, Naolys manufactures products on demand. So they can be delivered:

- **At any time**
- **With a small minimum of order**
- **With a customized packaging**

Depending on the quantity you order, Naolys will deliver your products within 2 weeks and 1 month (Europe), within 4 and 6 weeks (out of Europe). All our products are completely manufactured in France.

Contacts

If you have any question, need any information on our products, please contact us:

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{ THE MYTHICAL ONES }

Age-old plants or close to gods universes, Western Gods and Eastern Gods. As integral parts of founding legends, they symbolize life.





THE MYTHICAL ONES



Rose root

Rhodiola rosea

A legendary plant coming from the cold Siberia, very well known for its adaptogenic properties: it is supposed to help to face physical and psychic stress. A choice partner for Soviet athletes and astronauts.

ENERGY



Chinese peony

Paeonia lactiflora

A floral myth, in all Asia, especially in China. With many subspecies natural and hybrid, the Chinese peony, like any peony has become an object of fascination in China. Symbol of wealth, beauty and femininity, it is a decoration pattern of reference.

BALANCE



Curry plant

Helichrysum italicum

A little Mediterranean flower that lies on the ground, a deep fragrance of curry, a rare and precious plant introduced in gardens, but its French name expresses immortality.

ANTI-AGEING



Desert rose

Adenium obesum

Precious because of its petals with a subtle shaded off colour and rare because of its impressive longevity, an ornamental plant with a caudex, ancient and very popular among collectors. It is an emblematic figure of the desert spaces in East Africa and of an Island out of time, Socotra.

HYDRATION



Egyptian blue lily

Nymphaea caerulea

The God creator's plant in the cosmogony of the ancient Egypt. Associated with death, as a symbol of the transition to the after life and rebirth, it is also an element of ornament used as a symbol of power.

ANTI-AGEING

BALANCE



Eucalyptus

Eucalyptus punctata

One of the trees of the Dream Time, the story of the creation of the world for native Australian people; the tree that created the Blue Mountains. It can modify an ecosystem by draining soils.

BALANCE



Ginkgo

Ginkgo biloba

Tough witness to the human craziness in Hiroshima, this tree is revered as a good spirit in the Shinto religion in Japan. A universal Asian plant.

ENERGY



THE MYTHICAL ONES



Madonna lily

Lilium candidum

A symbol of purity, nobility and majesty since Ancient times thanks to its white colour. An elegant and intense fragrant flower. Its majestic shape has been celebrated by Western poets for many centuries.

BRIGHTENING



Nopal

Opuntia ficus indica

A precious cactus from the New World discovered by Mesoamerican civilizations that used it for its many benefits. It is one of the symbols of contemporary Mexico.

ANTI-AGEING



Olive tree

Olea europaea

A symbol of peace and longevity, the Mediterranean area worships it for its medicinal uses since the Ancient times. A tree that knows how to survive after its own destruction.

ANTI-AGEING

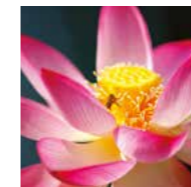


Papyrus

Cyperus papyrus

The plant that gives birth to the ancient and prestigious medium for writing: Pharaoh's. Symbol of kingship in Low Egypt, in the Nile delta, its forests remind now imaginery.

HYDRATION



Sacred lotus

Nelumbo nucifera

The sacred flower on the Asian continent, from India to Japan, from hinduism to buddhism. As a perfect symbol of purity, it is above tumult and ugliness.

BALANCE



Indian olibanum

Boswellia serrata

Growing in the East of Africa and the desert zones in the Arabian peninsula, it is the tree with the most famous resina: the frankincense. Used in religious rituals and Eastern traditional medicines since hundred years, it enchants the whole planet with its fragrances and its healing properties.

HYDRATION



Sequoia

Sequoia sempervirens

The age-old tree of the Native American ethnic groups from the West Coast of the United States, the ancestors' tree. A tree like a phoenix, which uses fire to better reproduce itself.

ANTI-AGEING

MYTHICAL

AROMATIC

FAMILIAR

BRIGHTENING

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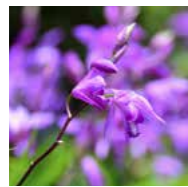
THE MYTHICAL ONES



Poet's narcissus
Narcissus poeticus

Beauty might be fatal, too much love of oneself can kill. The white flower with a deep fragrance and toxic bulbs, is famous both in Western and Eastern countries. It has become a key essence for prestige perfumes. But in Asia it is also a medicinal plant used in several purposes.

BRIGHTENING



Hardy orchid
Bletilla striata

A terrestrial Asian orchid, an outstanding plant known for its longevity probably due to its hardiness. Many hybrids exist but this one is one the last five original species living on earth. Very popular in China for its rhizomes and its applications in traditional medicine.

ANTI-AGEING



Mexican poppy
Argemone mexicana

A poppy full of mystery, with a magic power. Coming from Central America, the Mexican poppy was used in sacrificial rituals and offered to gods as "dead food" in the Aztec civilization. As a medicinal plant with several properties, it is used in many communities of America, Africa and India.

HYDRATION



Aloe vera
Aloe vera barbadensis

"Elixir of life", "Fountain of Youth", a succulent plant both sacred and precious. Its latex and its gel make it a medicinal plant known and used in many Western and Eastern civilizations, since 5000 years. A plant known all over the world.

BALANCE



Edelweiss
Leontopodium alpinum

In the 21st century, almost nobody can't ignore the flower from the Alpine glaciers, that knows how to live in an extreme cold and harsh UV. Discovered in the 19th century, it is today recognised with its inimitable shape and for its health benefits all over the world. It is also the symbol of an imaginery Switzerland.

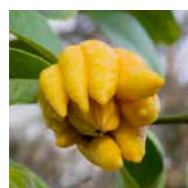
PROTECTION



Japanese cherry tree
Prunus serrulata

In Japan the tree is a symbol for the spring renewal. Its delicate white to pink flowers that appear at the end of winter are celebrated in the whole country. An ornamental tree as it blossoms abundantly, but it is fragile as its flowers: it can't live a long time. A good reason to take care of it.

SENSITIVE SKINS



Budha's hand citron
Citrus medica sarcodactylis

A fruit with a mysterious shape, a subtle fragrance, and a shrub with a very complicated origin. All the ingredients to create a plant with an aura almost magical. Very popular that citron is cultivated in all Asia.

ENERGY

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{ THE AROMATIC ONES }

Precious plants, some of them have been used in perfumery since centuries. Original fragrances and flavours; Vitis flower, the flower of vine, a vegetal species more known for its fruit, but which emanates a fragrance almost similar to reseda's.





THE AROMATIC ONES



Angelica

Angelica archangelica

Used as a panacea in European medicine since the Middle Ages, the «angel's herb» or angelica, a perennial that grows in cold regions, deserves to be rediscovered not only for its medicinal benefits but also for its herbaceous, woody, musky fragrance. A plant with a surprisingly rich array of properties.

ANTI-AGEING



Apothecary's rose

Rosa gallica officinalis

Another ancient rose, colored with a so dark pink that some call it red. In France, it is associated to crusaders legends, and it was very popular among apothecaries in the Middle Age because of its medicinal properties.

BALANCE



Coffee

Coffea arabica

Born in East Africa and famous since the 16th century for the beverage we made from its fruit. Its culture puts the earth in danger because of pesticides that are used for it.

ENERGY



Commiphora

Commiphora whigtii

Its name doesn't sound much to you, but its resin, myrrh, reminds you journeys in the East. A plant used in Ayurveda, one of the most ancient medicines.

ANTI-AGEING

PROTECTION

HYDRATION



Frangipani tree

Plumeria obtusa

Famous in all the world thanks to its special fragrance coming from its flowers and fruits, it is also a medicinal plant. Because of the colour of its flowers, it is dedicated to gods in Eastern countries.

PROTECTION



Gardenia

Gardenia jasminoides

A heady and sweet fragrance, evocating tuberose, but its characteristics are synthetically reproduced to create perfumes. A plant from Asia that can be found in any garden of the world for its beautiful spotlessly white flowers.

ANTI-AGEING



THE AROMATIC ONES



Great bougainvillea

Bougainvillea spectabilis

A tropical climber from the Northern hemisphere, that plant with sparkling colorful flowers is cultivated to decorate our gardens and houses but hides many medicinal properties not much used today.

BODY



Indian jasmine

Jasminum sambac

Flower of the Gods in India and in all Asia, the simplicity of its petals hides an exquisite perfume.

BALANCE

PROTECTION



Pale rose

Rosa centifolia

An ancient rose, modified in the 16th century by expert gardeners' hands, with a luxuriant flowering. As its petals take part in creation of original fragrances, the plant offers also medicinal uses.

HYDRATION



Peppermint

Mentha piperita

Already used in Ancient times to cure and perfume, this medicinal plant has been cultivated in the Middle Age in all Europe for its different benefits. It produces an essential oil always very popular.

ENERGY

HAIR



Rose from Damas

Rosa damascena

The rose of perfumers and poets, which has a mysterious origin. An ancient rose symbol of the universal beauty.

ANTI-AGEING



Sweet iris

Iris pallida

A flower messenger of gods. The delicacy of its fragrance and its flowers made it essential to the contemporary perfume industry.

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THE AROMATIC ONES



Vitis flower

Vitis vinifera

When the arom of wine comes from the fruit, the flower emanates a subtle but original fragrance. A plant dedicated to the Gods' nectar in the Greek and Roman pantheons.

BALANCE



White rose

Rosa alba

An ancient hybrid rose, already known in the ancient times: it is another legendary rose, which mixes purity and beauty. Its first asset: its hardiness; it is frost-resistant and knows how to grow in the shadow.

PROTECTION



Ylang Ylang

Cananga odorata

The "flower of flowers" from the tropics has a complex and heady fragrance. From spicy and sweet perfumes of luxury brands to flowers adorning women's hair in Pacific islands, it remains an original fragrance that sublimates the beauty of the two genders.

BALANCE



Vanilla

Vanilla planifolia

One of the most ancient and used flavour in the world. Coming from the tropical forests in Central America, that climbing orchid produces an aroma already used in the 15th century by the Aztec to flavour the drink they made with cocoa.

ENERGY

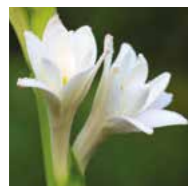


Tea

Camellia sinensis

Born in the South East in the mountains from India to China, that shrub with precious leaves gave birth to one of the most popular drinks associated with rituals as originals, symbols of many civilizations.

ANTI-AGEING



Tuberose

Polianthes tuberosa

A flower with a spellbinding and heady scent. The tuberose is an essential note in prestige perfumes but it can be seen as a threatened species. Born in Central America, the tuberose doesn't grow spontaneously anymore; only humans, thanks to their cultures are responsible for its survival on earth. A plant to be protected soon?

ANTI-AGEING



{ THE FAMILIAR ONES }

Medicinal plants, close to our everyday life, endemic or rare in their original environment. Plants essential to their ecosystem.

FAMILIAR

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THE FAMILIAR ONES



Cornflower

Centaurea cyanus

An edible wildflower that attracts pollinating insects, it is well known in Europe and Northern Asia. Since the 16th century, it has evolved to grow near cereal crops and was thought to have protective powers. Today it is threatened by the use of herbicides in intensive farming: we need to save it and rediscover its medicinal properties!

ANTI-AGEING



Four O'Clock

Mirabilis jalapa

A fragrant perennial tuberose, with multicoloured petals. That tropical flower opens at night thanks to an original internal clock. In remote zones from Central America to Nepal, its popularity comes also from its very diversified medicinal properties.

ENERGY



Snow lotus

Saussurea involucrata

A precious species that has been playing a big part in the traditional Chinese medicine since many years. A plant that can live in an extrem environment at 3000 meters of altitude in the remote montains of China and Tibet and with varied medicinal properties.

BALANCE



Almond tree

Prunus amygdalus dulcis

A tree with fruits full of benefits: nourishing, gustative and cosmetic. Its rich and deep fragrance gave it recently a new and soft image.

HYDRATION



Apple tree

Malus domestica

One of the most cultivated fruit trees in the world from Western to Eastern countries. The Golden Apples in the garden of Hesperides would have contain extraordinary properties, ours healing molecules.

SENSITIVE SKINS



Apricot

Prunus armeniaca

Very early in the flowering time, a fruit tree become today universal. The taste and the flesh of its fruits made it popular beyond its zone of culture: the Mediterranean Basin.

SENSITIVE SKINS



THE FAMILIAR ONES



Asian ginseng

Panax ginseng

Also called " the root of life ", it is one of the main plants of the traditional Chinese pharmacopia since hundreds years. An important medicinal plant known all over the world.

ENERGY



Blackberry

Rubus fruticosus

A nourishing and protective bush with its fruits rich in anti-oxydative molecules. Thanks to its flowers full of nectar, it belongs to a family that attracts bees, therefore helps to the pollination of plants around.

PROTECTION



California poppy

Eschscholtzia californica

The golden flower symbol of California, The Golden State since 1903. The beauty of its colored fields and its many benefits for human beings have made it popular beyong its dedicated Reserve, the Antelope Valley Reserve in Los Angeles county.

PROTECTION



Centella asiatica

Centella asiatica

As a first-class medicinal plant in the Ayurvedic and Chinese traditional medicines for many properties. A plant that is still studied by scientists nowadays.

ANTI-AGEING



Cherry tree

Prunus cerasus

From jams to pies, its fruits became stars in cookery. And before fruits, in spring, the delicate flowers enchant the countryside landscapes in the Northern hemisphere.

PROTECTION



Chinese hibiscus

Hibiscus rosa sinensis

A shape and a colour unforgettable. Now its is a flower not only famous in the tropics where it is born but also in all the gardens in the world. A plant both beautiful and useful.

ANTI-AGEING

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THE FAMILIAR ONES



Evening primrose

Oenothera biennis

Coming from South America, with short-lived flowers, the nutritional wealth of its oil makes that plant a source of beauty and longevity. An edible plant with many benefits.

PROTECTION



Cotton

Gossypium arboreum

One of the textile plants whose intensive culture destroys the environment because it needs litres of water and because its vulnerability to insects has to be fought with pesticides.

SENSITIVE SKINS



Date palm

Phoenix dactylifera

The essential plant to the ecosystem of oasis. Today overexploited in Africa, it has to be protected because it can resist the arid, dry and hot climate of the desert.

PROTECTION



Ginger

Zingiber officinale

Coming from tropical Asia, it is a universal species, with several uses. From cooking to luxury perfume industry, the arom of its rhizoms brings a note both spicy and of a peel, original and unmistakable.

BALANCE



Hibiscus syriacus "Blue bird"

Hibiscus syriacus

A young hybrid created in the fifties, very popular in gardens because of its blue mallow petals and its purple throat. As it belongs to the Malvacea family, its phytochemical characteristics should be interesting to study.

ANTI-AGEING



Indian kudzu

Pueraria tuberosa

As a food plant and a very popular medicinal species, that climber is famous in India and many Asian countries. But its celebrity in Ayurvedical preparations put it in danger in some Indian areas.

BRIGHTENING



Pomegranate

Punica granatum

A tree with a fruit very famous from Western Asia to North Africa, but its origins have been forgotten, since it has been cultivated as far as California. Its pulp full of many pips is used in many ways in the cooking from India to Spain.

PROTECTION



THE FAMILIAR ONES



Red-flowered silk cotton tree

Bombax costatum

A tree born in West and Center Africa, its exceptional capacity to resist to drought and white threads, called "kapok", make it today a plant to be reconsidered.

PROTECTION



Saffron

Crocus sativus

The most expensive spice in the world. A simple flower with rich colours from petals to etamins. A plant to be rediscovered.

ANTI-AGEING

ENERGY



White water lily

Nymphaea alba

The most simple white water lily, round and fine. As a symbol of calmness, it is an integral part of the aquatic universe.

ANTI-AGEING

BALANCE



Lilac

Syringa vulgaris

Very popular in European gardens thanks to its decorative flowers with a subtil fragrance. A plant species a bit old fashioned nowadays but that should require our attention: it offers forgotten and undiscovered benefits.

HAIR



Cocoa

Theobroma cacao

Called beverage of gods by Linné, the French botanist, the cocoa, a fruit of a shrub growing in tropical forests in Central america gave birth to chocolate, a sacred food with many benefits used in Maya and Aztec civilizations. The subtilty and the diversity of chocolate make it a complex flavour to create innovative food recipes and wellbeing applications.

ANTI-AGEING



Vervain

Verbena officinalis

An aromatic perennial plant with an esoteric image. Considered to have hidden powers, it was called Herb of the Cross or Devil's Medicine already from Ancient Times. Vervain has become a leading medicinal plant in traditional European and Asian materia medica.

SENSITIVE SKINS



Strawberry tree

Arbutus unedo

A centennial shrub famous for its fruits in the whole Mediterranean area. A shrub famous for its eternal foliage, its tiny white flowers lighting the gloomy days in cold seasons. Ornamental and medicinal since many centuries, but always wilde.

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To even skin tone, to fight against dark spots, active ingredients to be integrated in specific skincare products or in ranges dedicated to mature skins. To repair or prevent, according to the age of skin, the types of skin, and how long skin is exposed to sun.

BRIGHTENING

ANTI-AGEING

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Inside Light Poet's narcissus



Decreases pigmentation, improves radiance and the brightness of complexion. Lightening and anti-blemish, helps to prevent and reduce brown spots. Reduces skin blemishes, helps to develop a more uniform complexion. Reduces deterioration of pigmentation due to sun exposure, anti-ageing. Any type of skin, skincare or colour cosmetics products.

Brightening effect

—
after 28 days of treatment (face) - clinical study

Brightening effect

—
study of melanogenesis (melanin production and transfer)

Bright Light Madonna lily



Brightening, helps to prevent and decrease dark spots, limits modifications of tone, helps to get a tone more uniform, regenerating, for adult and mature skins - daily and intensive facial care, treatments, after sun care.

Brightening effect

—
after 56 days of treatment (face) - clinical study

Brightening effect

—
study of the regulation of pigmentation

Anti-ageing effect

—
study of KI-67



Enlightening Indian kudzu



Brightens up the skin tone, brightening, evens skin tone, matifying, decreases the shining aspect of skin, contributes to eliminate toxins and to bring nutrients to skin – adult and mature skins – normal to lightly greasy and tired skins – daily face care day and/or night, intensive care.

Brightening effect

—
study of the regulation of the pigmentation and the melanogenesis

Matifying effect

—
fatty acids, glycerol and AMPc assay

Energizing effect

—
study of CO₂ release

BRIGHTENING

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Naolys has carefully developed a range of anti-ageing products, which offer specific and repairing actions to be selected according to your marketing claims and depending how old skin is.

ANTI-AGEING

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Inner Renewal [CC+AA]

NEW

Anti-ageing, it limits the apparition and the creation of wrinkles and fine lines. Improves suppleness and firmness of skin, redensifying. Regenerating, helps to restore the skin barrier. Decreases the natural oxidative stress. Limits the cell degeneration - any type of skin, especially for adult and mature skins – anti wrinkle skincare, eye contour care, or global anti-ageing products. Any type of skincare (face and bodycare), and color cosmetics.

Anti-wrinkle effect – after 28 days of treatment (face) - clinical study	Anti ageing effect – study of proteoglycans, collagens and GAGs with oxygen peroxide	Regenerating effect – study of Ki-67	Antioxidant effect – study of lipid peroxidation with oxygen peroxide
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Optimum Life Angelica

Universal anti-ageing, anti wrinkle and fine lines, firming, balancing, strenghtens vital functions of skin cells. Protecting, anti-pollution and anti-oxidant. To be used in day care or serums made to get an overall improvement of skin. For any type of skin, skincare and colour cosmetics.

Anti-wrinkle and firming effect – after 28 days of treatment (face) - clinical study	Anti ageing effect – study of collagens and elastin	Balancing and stimulating effect – study of the cell nutrition (transportation speed of nutrients) study of cell communication (connexins 43)	Energizing, antioxidant and antipollution effect – study of absorption of oxygen, hypoxia, and oxidased proteins after exposition to UVB and pollutants
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MReload Sequoia

Global anti-ageing, dedicated to mature skins, decreases especially wrinkles and fine lines on male skin. Firming. Helps to a better moisturization, reinforces the cutaneous barrier. Soothing. Protects from overall oxidation directly and by strengthening the action of antioxidant enzymes. For any type of skin, face and body, to be used for a cure or a daily use. Skincare and makeup.

Anti-wrinkle effect – after 28 days of treatment (face) - clinical study on male skin	Firming and restructuring effect – study of collagens and proteoglycans	Antioxidant effect – study of ROS creation study of protecting enzymes (SOD and catalase)	Soothing effect – study of inflammation mediators (IL-6, IL-1 alpha, PGE2)
Moisturizing effect – measure of tritiated water (3H20)			

InitialE [PT+TMG]

Anti-wrinkle, anti dark circles, anti-puffiness. Multi activities and especially dedicated to eye contour. Anti-ageing and balancing effects, firming and moisturizing, increases radiance and skin barrier. Lipid restoring. Soothing, decreases skin irritation. Dedicated to adult and mature skins. To be used in eye contour products. Daily care or treatment care.

Anti-wrinkle, anti dark circles, anti puffiness – after 30 days of treatment (face/eye contour) – clinical study	Firming effect – proteoglycans, collagens, elastin and metalloproteinases 3 (MMP3)	Moisturizing effect – tritiated water (3H20) assay	Soothing effect – study of inflammation mediators (IL1-alpha, IL-6, PGE2)
Lipid restoring effect – lipids assay (free fatty acids)		Detoxifying effect – study of the CO ₂ release	

ANTI-AGEING

PROTECTION

BALANCE

SENSITIVE SKINS

HYDRATION

ENERGY

BODY

HAIR



Power Extension [HSB+R]

Anti-aging, for adult and mature skins, limits the slowdown of metabolism, reinforces the production of energy, boosts cell activity, anti-oxidant, limits the production of free radicals, helps to decrease the production of wrinkles. For facial daily skincare or treatment - day or night care.

Anti-wrinkle effect — after 28 days of treatment (face) - clinical study	Anti-ageing effect — study of the activity of proteasom in condition of cell senescence	Energizing effect — study of the CO ₂ release Energizing effect — study of the energetic metabolism with oxidable substrates, study of the energetic charges (ATP, ADP, AMP)	Antioxidant effect — study of lipid peroxidation (physiological and induced by UV - MDA assay)
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All Even Sweet iris

Anti-ageing, it limits the apparition and the creation of wrinkles, firming effect. Improves suppleness and firmness of skin, limits dryness of skin. Regenerating - any type of skin, especially for adult and mature skins - skincare against wrinkles, eye contour care, or global anti-ageing products. For day or night skincare.

Anti-wrinkle effect — after 28 days of treatment (face) - clinical study	Anti-ageing effect — study of KI-67 and filaggrine	Anti-ageing effect — proteoglycans, collagens, elastin, GAG (glucosaminoglycans) and metalloproteinases 3 (MMP3) assay
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Foreseen Shield Nopal

Decreases the effects of photo-ageing, protects cell DNA from UVA and UVB, against scavengers, limits the creation of dark spots, protects and reinforces the skin immune system, decreases the creation of wrinkles, for adult and mature skins, when skins is exposed a long time to UV rays - daily facial care, suncare after sun care.

Anti-wrinkle effect — after 28 days of treatment (face) - clinical study	Protective effect — comets testing (UVA and UVB) Anti-spot effect — study of cell pigmentation	Immuno-modulative effect — study of IL-8, IL-10 and of the proliferation of lymphocyt	Antioxidant effect — study of lipid peroxidation (MDA assay)
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Inside Heart Egyptian blue lily

High anti-ageing action. Slows down general intern cell ageing. Contributes to maintain skin youth, thanks to a better skin tension, and to better cell functions in the derma. Long term action. For mature skins - for face - night and day care.

Anti-wrinkle effect — after 28 days of treatment (face) - clinical study	Anti-ageing effect — study of non-enzymatic glycation	Antioxidant effect — study of lipid peroxidation (physiological and induced by UV - MDA assay)
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StandStill Rose from Damas

Anti-ageing - repair action. Prevents ageing of the derma. Decreases the formation of wrinkles. Helps to keep a firming and supple skin. For mature and adult skins. Also for eye contour care - night and day skincare.

Anti-wrinkle effect — after 28 days of treatment (face) - clinical study	Anti-ageing effect — proteoglycans, collagens and metalloproteinases 3 (MMP3) assay	Anti-ageing effect — study of cell senescence - fibroblastes - β-galactosidase assay
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New Regeneration Cocoa

Anti-ageing focused on major components of the dermo-epidermis junction. Strengthens the skin support function. Improves suppleness and firmness of skin. Increases skin barrier, helps to limit dryness on the skin surface. Regenerating. Any type of adult and mature skins for face care.

Firming effect — proteoglycans, collagens, elastin, integrin, laminin and metalloproteinases 3 (MMP3)	Anti-ageing effect — study of KI-67 and filaggrine
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All Fiber Booster Olive tree

All Fiber Booster Chinese hibiscus

All Fiber Booster Tea

Anti-ageing, it limits the apparition and the creation of wrinkles, firming effect. Improves suppleness and firmness of skin, limits dryness of skin. Regenerating - any type of skin, especially for mature skins, and for skincare against wrinkles, or global anti-ageing products. For day or night skincare.

Anti-ageing effect	Anti-ageing effect
— study of KI-67 and filaggrine	— proteoglycans, collagens, elastin, GAG (glucosaminoglycans) and metalloproteinases 3 (MMP3) assay

Inside Heart Gardenia

High anti-ageing action. Slows down general intern cell ageing. Contributes to maintain skin youth, thanks to a better skin tension, and to better cell functions in the derma. Long term action. For mature skins - for face - night and day care.

Anti-ageing effect	Antioxidant effect
— study of non-enzymatic glycation	— study of lipid peroxidation (physiological and induced by UV - MDA assay)

Revive Commiphora and Rose from Damas

For adult and mature skins, starting 45-years old women. Prevents development of wrinkles, firms and makes skin more toned and supple. Promotes epidermis cell renewal and regeneration, and provides a better cell energy. Appropriate for serums, treatments, after an operation - for face and damaged parts of the body - day and night care.

Anti-ageing effect	Energizing effect
— proteoglycans, collagens and metalloproteinases 3 (MMP3) assay	— study of the energetic metabolism with oxidable substrates, study of the energetic charge (ATP, ADP, AMP)



StandStill White water lily

Fiber Booster Plus Hardy orchid

Fiber Booster Plus Saffron

Total Generation Sequoia and Egyptian blue lily

Total Generation Curry plant

Total Generation Centella asiatica

Anti-ageing - repair action. Prevents ageing of the derma. Helps to keep a firming and supple skin. For mature and adult skins. Also for eye contour care - night and day skincare.

Anti-ageing effect	Anti-ageing effect
— proteoglycans, collagens and metalloproteinases 3 (MMP3) assay	— study of cell senescence - fibroblastes - β -galactosidase assay

Helps to keep a firming and supple skin. Appropriate for bust, neck and shoulders, arms beauty care. For mature skins or during a slimming diet. Also for eye contour care - face and body - night and day care.

Anti-ageing effect	Antioxidant effect
— proteoglycans, collagens and metalloproteinases 3 (MMP3) assay	— study of lipid peroxidation (physiological and induced by UV - MDA assay)

Repair action, global anti-ageing. Reduces sagging of tissues, furthers skin firmness and elasticity. Contributes to decrease wrinkles. Reboostes skin youth, reinforces the skin barrier. Regenerating, redensifies, for mature and tired skins - treatment or daily use - skincare and bodycare - night and day care.

Anti-ageing effect	Anti-ageing effect	Antioxidant effect
— study of KI-67 and filaggrine	— Action on the dermo-epidermis junction, study on transmitter substances and elements	— study of lipid peroxidation (physiological and induced by UV - MDA assay)



To provide a better skin defence in difficult or hard climatic and environmental conditions, here are active products to put in suncare products, in any day cream, to get an active skin cell protection at anytime.

PROTECTION

BALANCE

SENSITIVE SKINS

HYDRATION

ENERGY

BODY

HAIR



LightWaves Defense [JS+M]



Protective against damages of light rays with a large spectrum (UV, IR and blue light), anti-oxidant. Improves the quality of the skin sustain, firming, helps to get a skin more supple. Decreases redness, reinforces radiance. Any type of skin. Daily skincare, BB cream, day cream, serum and essence.

Anti-ageing radiance effect

—
after 28 days of treatment (face)
- clinical study

Protective effect

—
study of DNA fragmentation with UVA/UVB, IR and blue light

Firming effect

—
study of the extra cellular matrix (elastine, collagens, hyaluronic acid) with UVA/UVB, IR and blue light

Anti-redness effect

—
study of microcirculation - NO (EDRF) with UVA/UVB, IR and blue light



Smooth Lightening Pomegranate



A double action, both protective and giving more radiance. A protection against daily environmental aggressions, especially when living in the city. Giving radiance, oxygenating, and anti-oxidating, limits production of free radicals. Anti-ageing - any skintype, face and body.

Energizing effect

—
study of the CO₂ release

Anti-spot effect

—
study of cell pigmentation

Anti-pollution effect

—
study of MDA with residue of pollutants and heavy metals

Smooth Lightening White rose



A double action, both protective and giving more radiance. A protection against daily environmental aggressions, especially when living in the city. Giving radiance, oxygenating, and anti-oxidating, limits production of free radicals. Regenerative, improves skin's smoothness, soothing. Anti-ageing - any skintype, face and body.

Lightening effect

—
clinical study on 28 and 56 days - face

Anti-pollution effect

—
study of MDA with residue of pollutants and heavy metals

Soothing effect

—
study of inflammation mediators (IL1-alpha, IL-6, PGE2)

Regenerative effect

—
study of KI67 and filaggrin

Energizing effect

—
study of the CO₂ release

Anti-spot effect

—
study of cell pigmentation

Global Protect Evening Primrose



Globally protects epidermis: protects DNA from radical scavengers, prevents from pollution effects, high anti-oxidation protection - any skintype, including sensitive skins.

Global Protect Blackberry



Protective effect

—
comets test (UVB)

Protective effect

—
HSP 70 evaluation

Anti-pollution effect

—
study of MDA with residue of pollutants

OxyRelax California poppy



Antioxidant and anti-ageing, slows down the natural ageing, protects and relaxes skin. To be integrated in day skincare and for any type of skin, including mature skins; suncare and after suncare.

OxyRelax Cherry tree



Antioxidant effect

—
study of superoxide dismutase and catalase evaluation

Anti-stress effect

—
HSP 70 evaluation



Sun Protect Commiphora



Sun Protect Date palm



DNA protection, enhances solar filters and biologically protects the skin. Soothing, protects from sunburns and especially for damaged and irritated epidermis - for sun care, post hair removal care - any skintype - face and body.

Protective effect
- comets test (UVB)

Immunomodulative effect
- study of inflammation and immuno-suppression mediators (IL-1- α , PGE 2, IL-10, IL-8) and of the lymphocytes proliferation

Whole Protection Edelweiss



Whole Protection Red-flowered silk cotton tree



Antioxidant/against free radicals shield, DNA protection, reduces ageing from sun exposure. Soothing, against irritations, especially irritations from everyday shaving, protects from environmental aggressions. Anti-ageing. For everyday skincare, for any type of skin, especially for sensitive skins, or as an additional component in a sun care range.

Protective effect
- comets test (UVA and UVB)

Protective effect
- HSP 70 evaluation

Soothing effect
- study of inflammation mediators (IL-1- α , IL-6, PGE 2)



This is a range, in which products can be integrated in a complete range as the essential active. They provide every day skin well being, they provide original skin balances, in order to better anticipate and slow down cell ageing.



Healthy Perfection (Vitis flower)²

Tone enhancer. Healing, soothing, moisturizing, antidryness. Protecting, antioxidant, regulates the skin flora. Energizing, improves the cellular respiration and strenghtens the cellular metabolism, nutritional. Post-operation care or products to be used in a long term. Especially for sensitive skins, damaged skins or acne prone skins.

Healing effect, radiance effect, hydrating and rebalancing effect

—
reduction of imperfections, increase of radiance moisturizing rebalancing of skin pH after 28 days of treatment (face) - clinical study

Soothing effect

—
study of inflammation mediators (IL-6, IL-1 α, PGE2, TNF-β, VEGF)

Moisturizing effect

—
measure of tritiated water (³H₂O₂)

Energizing, nutritional effect

—
study of CO₂ release study of EDRF (NO)

Firming and restructuring effect

—
study of collagens and proteoglycans

Protecting effect

—
study of anti-microbial peptides (Beta defensine 2, LL-37)

Antioxidant effect

—
study of ROS creation study of protecting enzymes (SOD and catalase)

Refine Ginger

Rebalances, helps to get back a more homogeneous skin texture. Astringent, tightens and reduces pores, matifies (limits sebum production). Helps to tighten skin, firming. Moisturizing, antioxidant, limits the creation of free radicals and the formation of blackheads (oxided pores). Any skin type, especially oily skins.

Astringent and matifying effects

—
decrease of pores and reduction of sebum level after 28 days of treatment decrease of shininess after 6 hours of treatment (face) clinical study

Matifying effect

—
study of the 5 α reductase

Hydrating effect

—
study of GAG (glycosaminoglycans)

Firming effect

—
study of proteoglycans and elastin

Antioxidant effect

—
study of lipid peroxidation (physiological and induced by UVB - MDA assay)



Pure Light Chinese peony

Matifying, balancing, oxygenating, relaunches skin metabolism, decreases the tone shining, especially on nose and forehead, reinforces the skin barrier, relaxing, soothing, moisterizing, limits dryness of skin. Oily to light oily skins. Daily skincare – day or night, purifying and matifying masks.

Matifying and hydrating effects

—
decrease of the sebum rate after 56 days of treatment and increase of hydrating effect after 28 days of treatment (face) - clinical study

Matifying effect

—
study of the 5 α reductase

Moisturizing effect

—
tritiated water (³H₂O) assay

Soothing effect

—
study of the mediator of inflammation, IL-6

Detoxifying effect

—
study of the CO₂ release

Relaxing effect

—
study of the substance P

Unwind Sacred lotus

Rests, refreshes and relaxes skin. Brings a soothing effect that helps skin to get its balance back. Dedicated to stressed, damaged and irritative skins, especially those exposed to breaks or extensions of rythms (due to way of life), or to prolonged efforts - for any skintype, including sensitive skin - facecare day and night.

Relaxing effect

—
using test (skin tolerance and cosmetic efficacy) - clinical study

Relaxing effect

—
study of neuropeptids (substance P, CGRP), acetylcholin and NK1 receptor

Essential Being Indian jasmine

Keeps the balance of the epidermis cell system, maintains and prepares the cells to operate at their best - before skin aggression - regenerating, prevents fine lines. Helps to reinforce the immune skin system. Contributes to toxin elimination and helps the nutrition of skin cells - any skintype - face - night and day skincare.

Anti-ageing effect

—
study of KI-67 and filaggrine

Energizing effect

—
study of the CO₂ release

Balancing effect

—
study of cell communication



First Light Strawberry tree

First Light Snow lotus

Balances skin mechanisms referring to skin radiance. Decreases melanin production, lightening, contributes to even tone. Limits the creation of free radicals. Helps to increase cell renewal in epidermis, regenerating. Contributes to a better metabolism, oxygenating – any type of skin – face care day and night.

Regenerating effect – study of KI-67	Detoxifying effect – study of the CO ₂ release	Brightening effect – study of melanine	Anti-oxidant effect – study of lipid peroxidation (physiological and induced by UVB – MDA assay)
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Full Detox Eucalyptus

Full Detox Ylang Ylang

Purifying, detoxifying, oxygenating, it detroys toxins. Providing matt skin, it decreases the greasy aspect of skin. Cell regenerator, it fights against pollution effects, anti-ageing - for every day skincare, night skincare, purifying masks, spa skincare, any type of skin, including sensitive skins.

Anti-ageing effect – study of KI-67	Energizing effect – study of the CO ₂ release	Matt skin effect – study of the lipolitic activity (total fatty acids and glycerol assay)	Anti-pollution effect – study of MDA with residue of pollutants
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Purify White water lily

Purify Aloe vera

Purify Apothecary's rose

Helps cell regeneration, regenerating. Contributes to toxin elimination and helps the nutrition of skin cells. Soothing, decreases skin irritations, contributes to skin radiance - any skintype, especially appropriate for irritated skins - face - day and night care.

Anti-ageing effect – study of KI-67 and filaggrine	Energizing effect – study of the CO ₂ release	Soothing effect – study of inflammation mediators (IL1- α , IL-6, PGE 2)
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Active ingredients dedicated to sensitive skins, irritated skins, but also to skins whose immune system has been sometimes or regularly weakened.



Soothing Light Apple tree



Calming, soothing, decreases irritations and skin sensitiveness. Contributes to skin lightening and radiance, decreases redness, against colourless complexion. For irritated and sensitive skins, daily skincare.

Soothing effect and anti-redness effect

–
after 28 days of treatment (face) - clinical study

Soothing effect

–
study of inflammation mediators (IL1- α , IL-6, PGE 2)

Lightening effect

–
study of EDRF (NO) - micro-circulation

Soothing Light Vervain



Calming, soothing, decreases irritations and skin sensitiveness. Contributes to skin lightening and radiance, decreases redness, against colourless complexion. For irritated and sensitive skins, daily skincare.

Soothing effect

–
study of inflammation mediators

(IL1- α , IL-6, PGE 2)

Lightening effect

–
study of EDRF (NO) - micro-circulation

Soothing Light Apricot



Fragile Japanese cherry tree



Soothing, anti-irritant, radical protection, for a “from time to time” care, after skin aggressions, a climatic change - sensitive and irritated skins - face.

Fragile Cotton



Soothing effect

–
study of inflammation mediators (IL1- α , IL-6, PGE 2)

Antioxidant effect

–
study of lipid peroxidation (physiological and induced by UV - MDA assay)

Sensitive Skin Cotton



Soothing, regulates the defence immune system of the epidermis (Langherans cells), contributes to the reinforcement of the skin barrier - sensitive skins - face.

Soothing effect

–
study of the immunomodulation (Langherans cells)

Photoprotective effect

–
study of adhesion factors (ICAM 1); TNF- α assay



Moisturizing actives to select according to the hydration state/the age of the skin. To get an hydrating and anti-ageing action at the same time.



HydraSourcing [AM+PS]



Hydrating in a short and long term, helps to maintain the quality of the hydrolipidic film, strenghtens the NMF in the epidermis, contributes to strengthen the skin upper protection, regenerates, restores lipid levels, anti-ageing- any skintype - face and body - day and night care.

Hydrating effect

—
24 hours after single use and after 28 days of treatment - clinical study

Hydrating effect

—
tritiated water (³H₂O) assay

Anti-ageing effect

—
study of KI-67 and filaggrine

Anti-ageing effect

—
GAG (glycosaminoglycans) assay

Barrier function effect

—
lipids assay (free fatty acids and ceramids)



HydraGeneration Almond tree



Rebuilds the hydrolipidic film by cell renewal of the epidermis, restores skin defences, promotes a natural and balanced surface hydration, regenerating, contributes to strengthen the skin upper protection - any skintype - face and body - day and night care.

Hydrating effect

—
tritiated water (³H₂O) assay

Anti-ageing effect

—
study of KI-67 and filaggrine

Barrier function effect

—
lipids assay (corneocyte cohesion)

HydraGeneration Pale rose



HydraGeneration Papyrus



Rebuilds the hydrolipidic film by cell renewal of the epidermis, restores skin defences, promotes a natural and balanced surface hydration, regenerating, contributes to strengthen the skin upper protection - any skintype - face and body - day and night care.

Hydrating effect

—
8 hours after single use and after 28 days of treatment - clinical study

Hydrating effect

—
tritiated water (³H₂O) assay

Anti-ageing effect

—
study of KI-67 and filaggrine

Barrier function effect

—
lipids assay (corneocyte cohesion)

HydraSoothing Indian olibanum



Moisturizing on a short and long term (increases water supply coming from the dermis). Regenerates, increases the level of NMF. Soothing and calming. Anti-oxidant, limits the creation of free radicals. Accentuates general health and reinforces the protective part of skin. Any skintype, for daily skincare product.

Hydrating effect

—
Study of triated water
Study of GAG (glycosaminocans assay)

Regenerative effect

—
Study of KI-67

Soothing effect

—
Study of inflammation mediators (IL1-alpha, IL-6, PGE2)

Antioxidant effect

—
Study of lipid peroxidation (physiological and induced by UVB- MDA assay)



Active products which boost energy of skin, and give it comfort. To put into specific skincare products. They contribute to renew skin well being or to relaunch a slowed down metabolism.



Overnight Enhance [MJ+C]



General skin improvement thanks to a global increase of cellular metabolism. Strenghtens skin radiance and well being after one night. Detoxifying, lightening, contributes to toxin elimination and helps to the nutritution in skin cells. Decreases redness. Anti-oxidant, decreases the creation of free radicals. Anti-ageing.
To be used in any daily skincare, for treatment day and night, after a surgery – face, any skincare type, including tired and mature skins

Lightening effect	Energizing effect	Detoxifying effect	Antioxidant effect
– clinical study after one night and after 28 days – face	– study of the activity of the malate/ aspartate shuttle	– study of EDRF (NO) with oxygenated water	– study of lipid peroxidation (physiological and induced by oxigenated water – MDA assay)

Full Energy Budha's hand citron



Full Energy Vanilla



Energizing, increases and balances the energetic metabolism. Anti-oxidant, limits the creation of free radicals, especially at the level of cellular respiration. Improves cell regeneration, anti-ageing. Suits any type of skin, mature and tired skins.
To be used in any skincare product, night skincare products or foundations.

Energizing effect	Anti-oxidant effect	Regenerating effect
– study of the energetic metabolism with oxidable substrates, study of the energetic charges (ATP, ADP, AMP)	– study of lipid peroxidation (physiological and induced by UV - MDA assay)	– study of KI67



Light&Energy Rose root



Light&Energy Coffee and Saffron



Light&Energy Ginkgo



Oxygenating, energizing, boosting. Lightening, antioxidant and against free radicals, against tiredness of skin. Provides energetic and respiratory balance. Progressive energy and radiance, to be used after or during a very hard time for skin - day skincare, spa skincare and masks, as a treatment, for any type of skin.

Energizing effect	Energizing effect	Antioxidant effect
– study of the energetic metabolism with oxidable substrates	– study of the CO ₂ release	– study of lipid peroxidation (physiological and induced by UV - MDA assay)

Balancing Energy Asian ginseng

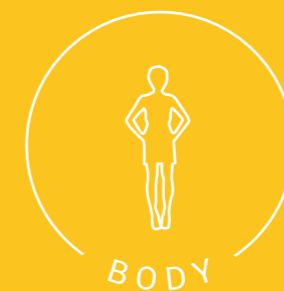


Balancing Energy Coffee and Peppermint



Energizing action on the epidermis, helps a better cell renewal, provides and preserves cell balance, boosts and keeps cell life functions at a natural level, anti-ageing - mature and tired skins - face and bodycare - specific or limited treatment.

Energizing effect	Antioxidant effect
– study of the energetic metabolism with oxidable substrates, study of the energetic charges (ATP, ADP, AMP)	– study of lipid peroxidation (physiological and induced by UV - MDA assay)



Especially dedicated to bodycare, that range of Naolys actives offers global, specific or numerous activities. Actives to be selected according to the body areas to be treated, skin problems and actives of the other ranges you might have chosen.



Splint&Slim
Great
bougainvillea



Slimming, helps to get a thinner shape, firming, regenerating, anti-ageing - any type of skin - for bodycare, day and night application, in a cure or on a regular use.

Slimming effect

—
after 28 days of
treatment - clinical
study

Anti-ageing effect

—
proteoglycans,
collagens and MMP3
(metalloproteinase)
assay

Lipolitical effect

—
study of the
regulation of lipolysis
(glycerol, alpha2
adrenergic receptor
and neuropeptide Y)



Because hair takes an essential part in beauty in the Eastern as Western countries, Naolys decided to create new active ingredients based on elementary needs of the hair bulb, according to its initial states. To be mixed with other actives to combine activities dedicated to hair shaft and hair scalp.



EtHAIRReal Peppermint



Rebalances oily hair. Helps to decrease the oily and dull aspect of hair. Regulating the overproduction of sebum and lipids; soothing, decreases irritations. Anti-oxidant. Dedicated to oily hair and scalp, to be used in a intense treatment or on a regular basis.

General regulating effect

—
clinical study on 28 days (hair and scalp)

Regulating effect of the lipid synthesis

—
study of the 5 alpha reductase and the free fatty acids

Soothing effect

—
study of the inflammation mediators (IL1-alpha, IL-6, PGE 2)

Antioxidant effect

—
study of the creation of ROS and the lipid peroxidation (MDA)

Healthy Shine Lilac



Gives healthy hair. Helps to restore natural hair shine and damaged hair. Balancing, soothing, decreases irritations, energizing, helps to increase cell metabolism, and anti-oxidant. Any type of hair, including damaged hair, sensitive scalp, intensive or regular care.

Repairing and shine effect

—
after 28 days of treatment - hair and scalp - clinical study

Energizing effect

—
study of the energetic metabolism with oxidable substrates, study of the energetic charges (ATP, ADP, AMP)

Soothing effect

—
study of inflammation mediators (IL1-alpha, IL-6, PGE 2)

Antioxidant effect

—
study of lipid peroxidation (physiological and induced by UV - MDA assay)

