



BOTANICALS

Natural ingredients for beauty and care



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Dear Reader,

I love Nature – and I am certainly not the only one. We enjoy Nature and we can find relaxation, tranquility and inspiration here. Symrise brings you closer to Nature in your day-to-day life: with our extensive BOTANICALS collection of natural ingredients for beauty and care.

You would be amazed to know just how frequently you can come into contact with our Botanicals – and thus with valuable ingredients from all over the world. Shea butter is one of them. Known as “women’s gold” in its native Africa, shea butter has been traditionally used in skin care for centuries. Today, shea butter enhances modern body creams all over the world for skin that is wonderfully soft and supple.

Ginger root is a popular and esteemed ingredient in Asian cooking and medicine; in our Botanicals, we capture its beneficial effects for use in skin care. In products like after-shave balms ginger is able to soothe irritated skin. Rooibos from South Africa has been proven to protect the color of hair and shows also anti-aging and skin soothing properties. Aloe vera, translated literally, means “effective cure”, and is a modern classic and rightly a sought-after ingredient for skin care products. In after-sun products, especially, you can enjoy its cooling, moisturizing effect.

But you can also encounter fruits among our Botanicals: tropical passion fruit in shower gel, for instance, turns every shower into a stimulating experience; and the Brazilian acai berry can be found in products like shampoos because of its smoothing, protecting and nurturing properties.

With Botanicals, you have Nature’s diversity at your fingertips – and I could give you plenty more examples. For me, personally, Botanicals combine the best of two worlds: they stand for the beauty and sensuality of Nature and, thanks to extensive research, equally for its beneficial effects.

We work constantly to explore new valuable ingredients of plants sourced from all over the world – both new discoveries and those in traditional use – for skin, hair and body care products. This brochure provides an insight into our portfolio, which is as diverse – and sometimes also as surprising – as Nature itself.

Get in touch with Nature: Symrise Botanicals.

Yours truly,
Gabriele Vielhaber
(Senior Vice President Life Essentials / Global Head Cosmetic Ingredients)

**More than 60 years of experience:
Botanicals by Symrise**

Our established line of Extrapone® was introduced as the first line of plant extracts that could be readily incorporated into any kind of cosmetic formulations – and that was back in the 1950s. Today, Symrise is a global market leader in this segment and Symrise's Actipone®, Extrapone®, Fruitapone® and Flowerpone® are behind the success of leading cosmetic brands all over the world.

From the heart of nature, for the benefit of the consumer:

Symrise Botanicals

Decades ago we have identified **nature** as the most powerful source of inspiration and ingredients. Today plant extracts are a core competence of Symrise – thanks to our profound expertise and more than 60 years of experience in developing, producing and marketing high quality natural products. Symrise Botanicals stand out for their versatility, ease of use and reliable high quality and enable you to promote your products with consumer-friendly labels such as Natural, Organic, Fair Trade or Sustainable. They can be signature ingredients and inspire whole new brands and product lines.

To fulfill the individual needs of **consumers** and customers alike, our research and product development teams cooperate with partners from around the world, always looking for new ideas and developing inspiring, trendy products.

Our clear understanding of consumer needs and expectations combined with careful market observation and trend analysis results in innovative botanicals that are refined by advanced extraction and standardization technologies, often backed up by in-vitro data and always complemented with the highest standards in technical documentation and marketing support.

We are a leading global supplier of **botanicals** to the cosmetics industry and we strive to be always one step ahead in order to be prepared for the ever-growing requirements. Thanks to our global network and our complementary sales channel SymSelect® we are available around the world and 24/7.

NATURE

- Global sourcing
- Organic
- Sustainability
- Traceability
- Standardization on main compounds/active principle



RESEARCH

- Natural raw materials
- Biological degradability
- Renewable resources
- Activity screening
- Plant identification
- Standardization



FOCUS

CONSUMER

- CMI database
- Marketing
- Trend analysis
- Product positioning
- Regional preferences
- Creative concept development

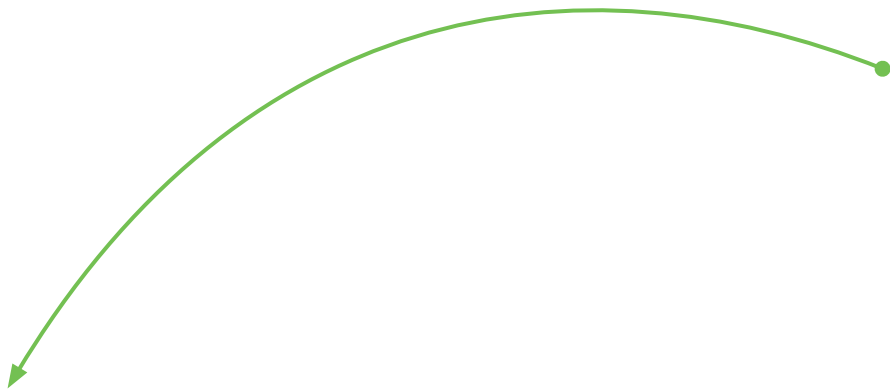


DEVELOPMENT

- Customer oriented solutions
- Stability testing
- Close collaboration with production
- Impurity & olfactory check



Product Groups



83%

of global consumers need to keep in touch with nature*

Actipone®

The Actipone® range consists of highly effective plant extracts for skin and hair care and covers a variety of natural, mainly standardized products with proven in-vitro efficacy confirmed by Symrise's R&D.

Extrapone®

Extrapone® is a range of aqueous glycolic preparations of natural plant extracts, covering a great variety of traditional and exotic plants.

Extrapone® GW

Extrapone® GW is a range of glycol-free products based on glycerin and water. The glycerin is of plant origin and proven to act as additional skin moisturizing agent.

Extrapone® Milk

Symrise Extrapone® Milk offer a combination of valuable milk components and natural plant essences. The addition of Hydrolite® 5 provides an excellent long-term moisturizing effect.

Fruitapone®

Fruits provide wholesome and nutritive substances for skin and hair. Fruitapone® contain natural fruit essences enhanced with the anti-irritant properties of bisabolol (Fruitapone® B) and antioxidant green tea (Fruitapone® GT).

Flowerpone® / Flowerconcentrole®

Without being a perfume, Flowerpone® and Flowerconcentrole® provide an unobtrusive

smell in cosmetic products and are able to mask base odors.

The products are preservative-free and contain bisabolol as a tracer.

Phytoconcentrole® / Plant Oils

Oil-based plant extracts keep the skin smooth and induce the formation of a natural protective film. Phytoconcentrole® are lipophilic plant extracts based on triglycerides and with added stabilizers to prevent oxidation. Plant oils are pure lipid plant extracts.

Certified Organic Range

Allplant Essence, Extrapone® and Actipone® include extracts from organically grown plants. The Allplant Essence range consists of 99+% certified organic colorless products, based on a special distillation process of fresh plants. The organic Actipone® and Extrapone® products are based on concentrated plant extracts, prepared in vegetable glycerin and water or organic maltodextrin as carrier substance.

Colorless Products (CL)

Aqueous plant extracts which meet the cosmetic industry's needs for colorless and clear products are indicated as CL.

Powders

The abbreviation "Neo" in a product name indicates products in powder form.



90%

of global consumers think that science should be inspired by nature*

* Source: Symrise Life Essentials consumer database (BR, CN, FR, DE, IN, MX, KR, RU, GB, US)

A photograph of two young girls with long, wavy brown hair lying on their backs on a lush green lawn. They are both smiling broadly with their eyes closed, appearing to be in a state of relaxation or happiness. The girl on the left is wearing a pink and white horizontally striped shirt, while the girl on the right is wearing a white short-sleeved shirt with a ruffled collar. The background is a dense field of green grass.

84%

of global consumers
think that natural
products are safer*

Our Collections

Ayurveda

Actipone®/Extrapone®

The Indian Ayurveda philosophy came into being about 5000 years ago. It aims at achieving psychological and physical harmony. Using herbs, flowers, essential oils and minerals, Ayurvedic cosmetics bring the skin to its own perfect balance. For the selection of Ayurvedic plants such as **amla**, **noni**, **nutgrass**, **bel** or **Indian berberine**, Symrise cooperated with Dr. Chandrakant Basole, an experienced consultant who studied Ayurvedic medicine and is an expert in phyto medicine.

Chinese Mushrooms

Actipone®/Extrapone®

Chinese mushrooms are a key ingredient in Traditional Chinese Medicine (TCM). Symrise offers several varieties for the use in cosmetic products, such as the famous **shiitake**, **coriolus** also called “turkey tail”, or **auricularia** (wood fungus or ear fungus, an allusion to its rubbery ear-shaped growth); **reishi**, one of the oldest mushrooms known to have been used in medicine, and **grifola frondosa**, better known by its Japanese name **maitake** – the “dancing mushroom”.

Gemstones

Extrapone®

The magical and therapeutic power of gemstones is deeply rooted in traditional medicine and popular belief: each gemstone has its own unique characteristics, its value and use. Symrise’s gemstones (Ecocert Greenlife approved) consist of gemstone powders and vegetable glycerin. Adding **crystals**, **diamonds** or **pearls** to cosmetics will enhance the value and image of beauty products and turn them into something truly precious.

Healthy Grains

Actipone®/Extrapone®

Grains are mainly composed of carbohydrates, proteins, lipids and mineral salts. They are an amazing source of energy, vitamins and fibers which makes them highly suitable for skin and hair care products. The healthy grains collection containing **amaranth**, **barley**, **kamut**, **millet**, **oat**, **quinoa**, **rice**, **rye**, **spelt** and **wheat**



recognizes the nutritional wealth of grains, some of which even show excellent antioxidant properties.

Marine Range

Actipone®/Extrapone®

The underwater world is full of fascinating life forms and raw materials. From different varieties of **seaweed** and **algae** to **precious stones**, **sea silt**, **sea salt** or **oyster shells**: the oceans and the deep sea are a source of inspiration – and a source of valuable, effective ingredients for the cosmetic industry. Be ready to dive in our inspiring marine collection supported by interesting proven anti-aging, skin soothing, and antioxidant data.

Superfruits

Actipone®

Superfruits such as berries stand for a combination of power, efficacy and color. They combine exceptional nutrient richness, antioxidant quality and an appealing scent and taste. The powerful antioxidant properties of superfruits make them an ideal ingredient for skin and hair care products. Discover our exciting range of popular fruits such as **blueberries**, **cranberries**, **elderberries**, **sea buckthorn** or **pomegranate** and exotic new ones such as **amla**, **aronia**, **camu camu**, **noni** or **goji berries**.

Superveggies

Actipone®

Vegetables protect the cells from oxidation and deliver many indispensable nutrients to humans. Due to their rich levels of antioxidants, fibers, vitamins, carbohydrates and mineral salts, they are essential for a healthy diet. So why not take advantage of these benefits in cosmetics? With superveggies **artichoke**, **asparagus**, **beetroot**, **pumpkin** and **zucchini**, Symrise unlocks the antioxidant potential of vegetables for skin and hair care applications.

Sustainable Shea Butter

In Africa the use of shea butter for skin care concentrates mainly on its healing and protecting properties against the harsh climate. Clinical studies have confirmed the anti-aging, moisturizing,



skin soothing and softening properties which make shea butter a valuable and trusted skin care ingredient all over the world. The sustainable business model of Symrise in Northern Ghana is based on age-old traditions of handmade techniques. Only premium nuts are processed without the use of any chemicals. Symrise Shea Butter is available in certified Fair Trade and Organic quality.

TCM

Actipone®/ Extrapone®

The knowledge of herbs is deeply rooted in Traditional Chinese Medicine. More than 7000 types of herbs with healing benefits have been documented for thousands of years. For the selection of plants for the TCM collection, Symrise cooperated with the experienced consultant Professor Guixin of the Shanghai University of TCM. Learn about the properties of **angelica, ginger, honeysuckle, licorice, pueraria** and **sophora** – to name a few.

Exotic Waters

Extrapone®

For ages, water has been a symbol of purification, renewal and recovery. It is the source of life and of health. In a world of urbanization concerns and climate issues, it also answers our ever-increasing need for freshness and hygiene. In beauty care, thermal water and floral waters stand for wellness and purity; in skincare, water is associated with moisture, hydration and healthy youthful looks. Join us on our world tour to explore our collection of exotic waters from places like **Fiji, Patagonia** or **New Zealand**.

Into the Woods

Actipone®

Wood is a popular natural and sustainable material. Until today, it has been a symbol of strength, naturalness and longevity. But wood is also an amazing source of beauty constituents, from niche fine fragrances to private label personal care products. Our wood extracts contribute to the nature-tech trend and have shown impressive activities from anti-aging and antioxidant to skin firming, soothing and hair color protecting. In the range are **ash, honey locust, sweet cherry** and **walnut tree wood**.





ALMOND

Did you know that almonds belong to the rose family (Rosaceae)? We humans have been growing almond trees for over 4000 years.

Product List

Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name
Acacia Acacia Farnesiana	anti-irritant, antimicrobial, astringent, stimulant	189864	Extrapone® Acacia GW
Acai Euterpe Oleracea	anti-aging, <u>antioxidant</u> , anti-irritant, astringent, <u>skin soothing</u> , smoothing	392576 903803	Extrapone® Acai Neo Actipone® Acai
Acerola Malpighia Glabra	antioxidant	101898	Fruitapone® Acerola B
African Water Water	moisturizing	510379	Extrapone® African Water GW P
Almond Prunus Amygdalus Dulcis	anti-irritant, antimicrobial, emollient, moisturizing	817953 510195 600828	Extrapone® Almond Extrapone® Almond Milk PF New PS Sweet Almond Oil (Organic) 
Aloe Vera Aloe Barbadensis	<u>anti-aging</u> , anti-irritant, anti-itching, antioxidant, emollient, <u>hair color protecting</u> , moisturizing, stimulant	102725 351823 615342 103043	Aloe Vera Gel Concentrate 10 / 1 Extrapone® Aloe Vera (Organic) GW  Extrapone® Aloe Vera P Neo Actipone® Aloe Vera
Amaranth Amaranthus Cruentus	antioxidant	324319	Extrapone® Amaranth GW
Amber Amber	stimulant	399912	Extrapone® Amber GW
Amethyst Amethyst		399909	Extrapone® Amethyst GW
Amla Phyllanthus Emblica	anti-aging, <u>antioxidant</u> , astringent, hair care, refreshing, stimulant	139680	Actipone® Amla (Amalki) Fruit GW
Angelica Angelica Polymorpha Sinensis	<u>anti-aging</u> , anti-irritant, antimicrobial, antioxidant, skin lightening, stimulant	399947	Actipone® Angelica Root (Dang Gui)
Apothecary Rose Rosa Gallica	anti-irritant, refreshing	146180	Extrapone® Apothecary Rose GW
Apple Pyrus Malus	antioxidant, astringent, hair care, moisturizing, smoothing	660196 382410	Extrapone® Apple Extrapone® Apple (Organic) GW 
Apricot Prunus Armeniaca	anti-irritant, antimicrobial, antioxidant	636518	Extrapone® Apricot 
Aquamarine Aquamarine		399911	Extrapone® Aquamarine GW
Argan Argania Spinosa	anti-aging, anti-irritant, antioxidant, moisturizing, protecting	358657	Extrapone® Argan
Arnica Arnica Montana	anti-dandruff, anti-irritant, antimicrobial, hair care, stimulant	611910	Extrapone® Arnica
Aronia Aronia Melanocarpa	anti-irritant, <u>antioxidant</u>	399955	Actipone® Aronia GW
Artichoke Cynara Scolymus	anti-dandruff, antimicrobial, <u>antioxidant</u>	364577	Actipone® Artichoke GW
Ash Fraxinus Excelsior	<u>antioxidant</u> , astringent, <u>skin soothing</u> , stimulant	373893	Actipone® Ash Wood GW
Asparagus Asparagus Officinalis	anti-irritant, antimicrobial, <u>antioxidant</u> , stimulant	374981	Actipone® Asparagus GW
Auricularia Auricularia Polytricha	antioxidant	510043	Extrapone® Auricularia (Mu Er) GW
Aventurine Quartz		399913	Extrapone® Aventurine GW
Avocado Persea Gratissima	anti-irritant, antimicrobial, emollient, hair care	212535	Avocado Oil



Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name
B Bamboo Bambusa Vulgaris	anti-irritant, antimicrobial, antioxidant	611699	Extrapone® Bamboo P
Banana Musa Paradisica	anti-irritant, antioxidant, astringent	385673	Extrapone® Banana GW
Baobab Adansonia Digitata	anti-irritant, antimicrobial, <u>antioxidant</u> , refreshing	385775	<u>Actipone® Baobab GW</u>
Barley Hordeum Vulgare	antioxidant, smoothing	373583	Extrapone® Barley GW
Basil Ocimum Basilicum	anti-irritant, antimicrobial, antioxidant, hair care, stimulant	309930 155812	Allplant Essence Organic Basil  Extrapone® Basil GW
Beetroot Beta Vulgaris	anti-irritant, antimicrobial, <u>antioxidant</u> , stimulant	373375	<u>Actipone® Beetroot GW</u>

 Organic certification by Ecocert [in-vitro data available](#)



BLUEBERRY
Blueberry has had its place in traditional European medicine for nearly 1000 years - in berry form, as a tea or liqueur.



Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name
Bel Aegle Marmelos	antimicrobial, antioxidant, astringent, refreshing	139258	Extrapone® Bel (Bilva) Fruit GW
Bengkoang Pachyrrhizus Erosus	antioxidant, <u>skin brightening</u> , skin lightening, smoothing	249497	<u>Actipone® Bengkoang</u>
Birch Betula Alba	anti-dandruff, anti-irritant, antimicrobial, astringent, purifying, stimulant	660110	Extrapone® Birch
Black Coffee Coffee Arabica, Coffee Robusta	<u>antioxidant</u> , stimulant	111951	<u>Actipone® Black Coffee GW</u>
Black Currant Ribes Nigrum	anti-aging, <u>antioxidant</u>	399977	<u>Actipone® Black Currant GW</u>
Black Pepper Piper Nigrum	antimicrobial, antioxidant, stimulant	113363	Extrapone® Black Pepper GW
Black Raspberry Rubus Occidentalis	<u>antioxidant</u>	381255	<u>Actipone® Black Raspberry GW</u>
Black Rice Oryza Sativa	anti-allergenic, anti-irritant, anti-itching, <u>antioxidant</u>	285179	<u>Actipone® Black Rice GW</u>
Black Tea Camellia Sinensis	anti-aging, anti-irritant, antimicrobial, <u>antioxidant</u> , astringent, emollient, hair care, moisturizing, protecting, stimulant	841291	<u>Actipone® Black Tea GW</u>
Blackberry Rubus Fruticosus	antioxidant	636722	Fruitapone® Blackberry GT
Blueberry Vaccinium Myrtillus	anti-irritant, antimicrobial, <u>antioxidant</u> , astringent, stimulant	399882	<u>Actipone® Blueberry GW</u>
Bordeaux Wine	anti-aging, anti-irritant, antioxidant	118823	Extrapone® Bordeaux GW
Cactus Flower Cereus Grandiflorus	astringent, stimulant	608598	Extrapone® Cactus Flower GW
Camomile Chamomilla Recutita	anti-dandruff, anti-irritant, anti-itching, antimicrobial, deodorant, hair care, moisturizing, purifying, refreshing, <u>skin soothing</u> , stimulant	311617 350135 340102 660155 660398 817076 659770	<u>Allplant Essence Organic Camomile</u> Camomile CL B Camomile Distillate Extrapone® Camomile Extrapone® Camomile GW Neo Extrapone® Organic Camomile Phytoconcentrole® Camomile
Camu Camu Myrciaria Dubia	anti-irritant, antimicrobial, <u>antioxidant</u>	399976	<u>Actipone® Camu Camu GW</u>
Canadian Water Water	moisturizing	510396	Extrapone® Canadian Water GW P

Product List



Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name
Cardamom Elettaria Cardamomum	antimicrobial, deodorant, stimulant	145838	Extrapone® Cardamom
Carrot Daucus Carota	anti-aging, anti-irritant, antimicrobial, emollient, refreshing, smoothing	659772	Phytoconcentrole® Carrot
Cashmere Hydrolyzed Keratin		510315	Extrapone® Cashmere GW N
Champagne Wine	anti-irritant, antioxidant	208890	Extrapone® Sparkling Wine GW
Cherry Wood Prunus Avium	<u>anti-aging, antioxidant, skin soothing</u>	510072	<u>Actipone® Sweet Cherry Tree Wood</u>
Cherry Fruit Prunus Cerasus	antioxidant	101395	Fruitapone® Cherry B
Chrysanthemum Chrysanthemum Indicum	anti-irritant, antimicrobial, refreshing	175473	Extrapone® Chrysanthemum (Ju Hua)
Cinnamon Cinnamomum Zeylanicum	antimicrobial, antioxidant, astringent, deodorant, purifying, refreshing, stimulant	619301	Extrapone® Cinnamon
Clary Sage Salvia Sclarea	anti-aging, anti-dandruff, anti-irritant, antimicrobial, <u>antioxidant</u> , astringent, deodorant, hair care, stimulant	314969 677057 206571	Allplant Essence Organic Clary Sage <u>Flowerconcentrole® Clary Sage</u> Flowerpone® Clary Sage
Cocoa Theobroma Cacao	anti-irritant, antimicrobial, antioxidant, emollient, protecting, stimulant	604689	Extrapone® Cocoa GW
Coconut Cocos Nucifera	antimicrobial, antioxidant, emollient, hair care, moisturizing	660159 510199 510399	Extrapone® Coconut Extrapone® Coconut Milk PF New PS Extrapone® Coconut Water GW
Corail Corallina Officinalis	antioxidant	410863	Extrapone® Corail GW
Coriolus Coriolus Versicolor	antimicrobial, <u>antioxidant, skin soothing</u>	510042	<u>Actipone® Coriolus (Yun Zhi) GW</u>
Cornflower Centaurea Cyanus	anti-aging, anti-irritant, antimicrobial, antioxidant, astringent, moisturizing, refreshing, stimulant	109242	Extrapone® Cornflower GW
Cotton Gossypium Herbaceum	antimicrobial	510348 196752	Dragocotton N Extrapone® Cotton Milk P
Cranberry Vaccinium Macrocarpon	antimicrobial, <u>antioxidant</u> , refreshing	398769	<u>Actipone® Cranberry GW</u>
Cucumber Cucumis Sativus	anti-irritant, anti-itching, antimicrobial, astringent, emollient, moisturizing, refreshing	660122	Extrapone® Cucumber
Curcuma Curcuma Aromatica	anti-aging, anti-irritant, antimicrobial, antioxidant	510310	Extrapone® Curcuma GW N
Curcuma Aromatica  Organic certification by Ecocert	<u>in-vitro data available</u>	399925	Extrapone® Diamond GW



Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name	
Dandelion Taraxacum Officinale	anti-irritant, antimicrobial, astringent, skin lightening, moisturizing, purifying, refreshing, stimulant	681279	Extrapone® Dandelion	D
Diamond Diamond		399925	Extrapone® Diamond GW	
Dragonfruit Hylocereus Undatus	anti-aging, antioxidant	391899	Extrapone® Dragonfruit GW	
Echinacea Echinacea Purpurea	anti-aging , anti-allergenic, anti-irritant, antimicrobial, antioxidant	277270	Actipone® Echinacea GW	E
Elder Sambucus Nigra	anti-irritant, antioxidant , astringent, moisturizing, protecting, refreshing, stimulant	399979 399901	Actipone® Elderberry GW Extrapone® Elderflower GW	
Eucalyptus Eucalyptus Globulus	antimicrobial, antioxidant, astringent	614857	Extrapone® Eucalyptus	
Fennel Foeniculum Vulgare	anti-cellulite, anti-irritant, antimicrobial, antioxidant, moisturizing, purifying, skin firming , stimulant	112106	Actipone® Fennel GW	F
Fig Ficus Carica	anti-irritant, antioxidant, emollient	619387	Extrapone® Fig GW	

DANDELION

To some it is just a weed,
to others a source of
nutrition and healing.
Natural cosmetics are
just one area in which
dandelion's constituents
are used today.





Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name
Fijian Water Water	moisturizing	510376	Extrapone® Fijian Water GW P
Frangipani Plumeria Acutifolia	<u>antioxidant</u>	159320 159319	<u>Flowerconcentrole® Frangipani</u> Flowerpone® Frangipani
G Garnet Garnet		399910	Extrapone® Garnet GW
Ginger Zingiber Officinalis	anti-irritant, antimicrobial, antioxidant, hair care, protecting, <u>skin soothing</u> , stimulant	118998	<u>Actipone® Ginger</u>
Ginkgo Biloba Ginkgo Biloba	anti-aging, anti-allergenic, anti-irritant, antimicrobial, antioxidant, protecting, stimulant	680841	Extrapone® Ginkgo Biloba
Ginseng Panax Ginseng	anti-aging, anti-allergenic, anti-irritant, antioxidant, hair care, moisturizing, smoothing, stimulant	142184	Extrapone® Ginseng



FRANGIPANI
 Women and girls in Hawaii can often be seen with a frangipani flower tucked behind one ear. There is a message behind which particular ear that is: if the flower is on the left, she is married. If it is on the right, she is single.



Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name
Glacier Water Water	moisturizing	184071	Extrapone® Glacier Water GW
Goji Lycium Barbarum	anti-aging, antimicrobial, <u>antioxidant</u> , hair care, stimulant	399924	Actipone® Goji Berry GW
Grape Vitis Vinifera	anti-aging, anti-irritant, antioxidant, moisturizing, protecting	636437	Fruitapone® Grape White GT
Grape Seed Vitis Vinifera	anti-aging, anti-irritant, <u>antioxidant</u> , emollient, <u>hair color protecting</u> , protecting	185338 903250	<u>Actipone® Grape Seed (Organic) GW</u>  <u>Neo Actipone® Grape Seed</u>
Grapefruit Citrus Paradisi	antimicrobial, antioxidant, refreshing, smoothing, stimulant	660219 800095	Extrapone® Grapefruit Extrapone® Pink Grapefruit GW
Green Tea Camellia Sinensis	anti-aging, anti-irritant, antimicrobial, <u>antioxidant</u> , astringent, emollient, hair care, moisturizing, protecting, stimulant	660403 252556 810494	Extrapone® Green Tea GW Extrapone® Green Tea (Organic) GW <u>Neo Actipone® Organic Green Tea</u> 
Guarana Paullinia Cupana	astringent, stimulant	660202	Extrapone® Guarana
Guava Psidium Guajava	antioxidant	237086	Extrapone® Guava GW
Hayflower Hayflower	deodorant, purifying, stimulant	101367	Extrapone® Hayflower
Henna Lawsonia Inermis	anti-dandruff, anti-irritant, antimicrobial, astringent, deodorant, hair care, purifying, refreshing	843546	Extrapone® Henna
Hibiscus Hibiscus Sabdariffa	anti-allergenic, anti-irritant, antimicrobial, antioxidant, protecting	838720	Extrapone® Hibiscus
Honey Mel	anti-irritant, antimicrobial, antioxidant, hair care, moisturizing	612117 510395	Extrapone® Honey GW Extrapone® Honey Milk N
Honey Locust Gleditsia Triacanthos	<u>anti-aging, antioxidant, skin firming, skin soothing</u>	510070	<u>Actipone® Honey Locust Wood</u>
Honeybush Cyclopia Subternata, Cyclopia Genistoides	anti-irritant, antimicrobial, <u>antioxidant</u>	348598	<u>Actipone® Honeybush (Organic) GW</u> 
Honeydew Melon Cucumis Melo	anti-irritant, antioxidant, moisturizing, purifying	660207	Extrapone® Honeydew Melon
Honeysuckle Lonicera Japonica	anti-irritant, anti-itching, antimicrobial, <u>antioxidant</u> , astringent, <u>skin soothing</u>	351601	<u>Actipone® Honeysuckle Flower (Jin Yin Hua)</u>
Hop Humulus Lupulus	anti-cellulite, anti-dandruff, anti-irritant, anti-itching, antimicrobial, antioxidant, astringent, emollient, hair care, smoothing, stimulant	647247	Hop CL

Product List

LAVENDER

The origin of this plant's name is lavare, the Latin for "wash" – and aptly so, given that fragrant lavender has a long tradition in skin care.



Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name
Horse Chestnut Aesculus Hippocastanum	anti-aging, anti-cellulite, anti-irritant, antimicrobial, antioxidant, astringent, stimulant	605510	Extrapone® Horse Chestnut
Horsetail Equisetum Arvense	anti-cellulite, anti-irritant, astringent, hair care	841660	Extrapone® Horsetail
Hortensia Hydrangea Arborescens	anti-allergenic, <u>anti-aging</u> , anti-irritant, antimicrobial, stimulant	373808	Actipone® Hortensia Root GW
I Indian Berberine Tinospora Cordifolia	anti-aging, anti-allergenic, antioxidant, stimulant	139870	Extrapone® Indian Berberine (Guduchi) Root GW
Ivy Hedera Helix	anti-aging, anti-cellulite, anti-dandruff, anti-irritant, antimicrobial, antioxidant, astringent, stimulant	680832	Extrapone® Ivy
J Jasmine Jasminum Officinale	anti-irritant, antimicrobial, <u>antioxidant</u> , stimulant	677217 206564 510271	Flowerconcentrole® Jasmine Flowerpone® Jasmine Jasmine CL Forte N
Jojoba Simmondsia Chinensis	emollient, hair care, moisturizing	162870 659830	Extrapone® Jojoba Jojoba Oil
Juniper Juniperus communis	anti-cellulite, anti-irritant, antimicrobial, antioxidant, astringent, deodorant, stimulant	392363	Juniper CL
K Kamut Hydrolyzed Wheat Starch	antioxidant	324038	Extrapone® Kamut GW
Kiwi Actinidia Chinensis	anti-aging, antimicrobial	817462	Extrapone® Kiwi
L Laminaria Digitata Laminaria digitata	moisturizing, protecting, <u>skin soothing</u> , smoothing, stimulant	421494	Actipone® Laminaria Digitata GW
Laminaria Saccharina Laminaria Saccharina	<u>anti-aging</u> , anti-cellulite, antimicrobial, <u>antioxidant</u> , <u>skin soothing</u>	146705	Actipone® Laminaria Saccharina GW
Laurel Laurus Nobilis	anti-dandruff, antimicrobial, <u>skin soothing</u>	311461	Allplant Essence Organic Laurel 
Lavandula Lavandula Intermedia	anti-allergenic, anti-dandruff, anti-irritant, antimicrobial, <u>skin brightening</u> , <u>skin soothing</u> , stimulant	312712	Allplant Essence Organic Lavandula 
Lavender Lavandula Angustifolia	anti-allergenic, anti-dandruff, anti-irritant, antimicrobial, <u>antioxidant</u> , deodorant, purifying, refreshing, stimulant	635334 677215 206573	Extrapone® Lavender Flowerconcentrole® Lavender Flowerpone® Lavender



Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name
Lemon Citrus Medica Limonum	anti-aging, anti-dandruff, anti-itching, antimicrobial, antioxidant, astringent, skin lightening, purifying, refreshing, stimulant	382409 660078	Extrapone® Lemon (Organic) GW  Neo Extrapone® Lemon
Lemongrass Cymbopogon Flexuosus	anti-dandruff, antimicrobial, antioxidant, astringent, deodorant, hair care, stimulant	620063	Extrapone® Lemongrass
Licorice Glycyrrhiza Uralensis	anti-allergenic, anti-cellulite, anti-irritant, antimicrobial, antioxidant, astringent, emollient, skin lightening, protecting, <u>skin firming</u> , smoothing, stimulant	102908	<u>Actipone® Licorice</u>
Lime Citrus Aurantifolia	anti-irritant, antimicrobial	616268	Extrapone® Lime
Linden Tilia Cordata	anti-irritant, emollient, refreshing, smoothing	817214 659807 810489	Extrapone® Linden Blossom Linden Blossom Distillate Neo Extrapone® Organic Linden Blossom 
Lotus Nelumbo Nucifera	anti-irritant, antimicrobial, antioxidant, astringent	111755	Extrapone® Lotus Flower
Lychee Litchi Chinensis	antioxidant, stimulant	615453	Fruitapone® Lychee B
Macadamia Macadamia Integrifolia	antioxidant, emollient, moisturizing	626919	Extrapone® Macadamia Nut GW
Magnolia Magnolia Officinalis	anti-aging, anti-allergenic, anti-irritant, antimicrobial, antioxidant, skin lightening	146723	Extrapone® Magnolia GW
Maitake Grifola Frondosa	antimicrobial	510045	Extrapone® Maitake (Yun Xun) GW
Mallow Malva Sylvestris	anti-irritant, anti-itching, antimicrobial, astringent, emollient, protecting, smoothing	153417	Extrapone® Mallow GW
Mandarin Orange Citrus Nobilis	anti-irritant, antioxidant	101392	Fruitapone® Mandarin Orange B
Mango Mangifera Indica	antioxidant, astringent	101393	Fruitapone® Mango B
Marigold Calendula Officinalis	anti-irritant, anti-itching, antimicrobial, antioxidant, astringent, emollient, protecting, stimulant	399895 660340	Extrapone® Marigold GW Phytoconcentrole® Marigold
Melissa Melissa Officinalis	anti-irritant, antimicrobial, antioxidant, stimulant	276581 677502 810492	Allplant Essence Organic Melissa  Extrapone® Melissa  Neo Extrapone® Organic Melissa 

Product List



Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name
Milk Sine Adipe Lac	moisturizing, purifying, skin lightening, soothing, softening	510345	Extrapone® Milk N
Millet Panicum Miliaceum	antioxidant, smoothing	283746	Extrapone® Millet GW
Mulberry Morus Alba	antimicrobial, astringent, <u>skin brightening</u> , skin lightening, protecting	399898	<u>Actipone® Mulberry GW</u>
Myrrh Commiphora Abyssinica	anti-aging, anti-irritant, <u>antimicrobial</u> , astringent, purifying, stimulant	399973	<u>Actipone® Myrrh GW P</u>
N Neem Azadirachta Indica	anti-irritant, antimicrobial, antioxidant, astringent, purifying, stimulant	148497	Extrapone® Neem GW
New Zealander Water Water	moisturizing	510380	Extrapone® New Zealander Water GW P
Noni Morinda Citrifolia	anti-irritant, <u>antioxidant</u>	139785	<u>Actipone® Noni (Ashyuka) Fruit GW</u>
Nutgrass Cyperus Rotundus	antimicrobial, astringent, <u>skin brightening</u> , <u>skin soothing</u> , stimulant	139445	<u>Actipone® Nutgrass (Motha) Root GW</u>
O Oak Quercus Robur	anti-irritant, antimicrobial, astringent	168533	Extrapone® Oak Bark
Oat Avena Sativa	anti-aging, anti-irritant, anti-itching, antimicrobial, <u>antioxidant</u>	660419 206889	<u>Actipone® Oats</u> AvenaLipid (Oat Oil)
Olive Olea Europaea	anti-irritant, antimicrobial, antioxidant, astringent, emollient, hair care, refreshing, smoothing, stimulant	636719 613319	Extrapone® Olive GW Extrapone® Olive Leaves
Orange Flower Citrus Aurantium Amara	anti-aging, anti-irritant, antimicrobial, <u>antioxidant</u> , astringent, deodorant, hair care, moisturizing, purifying, <u>skin firming</u> , stimulant	660200 112162 101401	<u>Actipone® Orange Flower</u> <u>Flowerconcentrole® Orange Blossom</u> Flowerpone® Orange Blossom
Orange Fruit Citrus Aurantium Dulcis	anti-irritant, antimicrobial, antioxidant, moisturizing, protecting, purifying, refreshing, stimulant	382412	Extrapone® Orange (Organic) GW 
Orchid Phalaenopsis Amabilis		143469	Extrapone® Orchid
Oregano Origanum Vulgare	anti-irritant, antimicrobial, <u>skin brightening</u> , stimulant	312755	<u>Allplant Essence Organic Oregano</u> 
Oyster Shell Oyster Shell	anti-irritant, astringent	415973	Extrapone® Oyster Shell
P Palmaria Palmata Palmaria Palmata	<u>antioxidant</u> , <u>skin soothing</u>	421297	<u>Actipone® Palmaria Palmata GW</u>
Papaya Carica Papaya	anti-irritant, antimicrobial, antioxidant, purifying, <u>skin brightening</u>	212206 800430	<u>Actipone® Green Papaya GW</u> Extrapone® Papaya



Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name
Passion Flower Passiflora Incarnata	anti-irritant, antioxidant, protecting, purifying, smoothing	636050	Extrapone® Passion Flower
Passion Fruit Passiflora Edulis	anti-aging, anti-irritant, astringent	101397	Fruitapone® Passion Fruit B
Patagonian Water Water	moisturizing	510378	Extrapone® Patagonian Water GW P
Peach Prunus Persica	antioxidant, moisturizing	660187	Extrapone® Peach
Pearl Hydrolyzed Pearl	anti-aging, antioxidant, moisturizing, skin lightening, smoothing, stimulant	156742	Extrapone® Pearl GW
Peppermint Mentha Piperita	anti-irritant, anti-itching, antimicrobial, astringent, deodorant, purifying, refreshing, stimulant	313252 614856	Allplant Essence Organic Peppermint Extrapone® Peppermint 
Pineapple Ananas Sativus	anti-irritant, antioxidant	683000	Fruitapone® Pineapple B
Pomegranate Punica Granatum	anti-aging, <u>antioxidant</u> , astringent, refreshing, stimulant	843441	<u>Actipone® Pomegranate GW</u>
Pueraria Pueraria Lobata	antimicrobial, <u>antioxidant</u> , refreshing, <u>skin soothing</u>	233040	<u>Actipone® Pueraria Root (Ge Gen)</u>
Pumpkin Cucurbita Maxima	<u>antioxidant</u> , cooling	359061	<u>Actipone® Pumpkin GW</u>

 Organic certification by Ecocert [in-vitro data available](#)



OATS
Oats are not just nutritionally valuable, but their many active constituents have a beneficial effect in cosmetic applications, too.



Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name
Q Quinoa Chenopodium Quinoa	antimicrobial, antioxidant	315588	Extrapone® Quinoa GW
R Raspberry Rubus Idaeus	antimicrobial, <u>antioxidant</u>	382411	<u>Actipone® Raspberry (Organic) GW</u> 
Reishi Ganoderma Lucidum	anti-irritant, antimicrobial, <u>antioxidant</u>	510046	<u>Actipone® Reishi (Ling Zhi) GW</u>
Rice Oryza Sativa	anti-irritant, antioxidant, emollient, protecting, softening	645424 176244	Extrapone® Rice GW Extrapone® Rice Milk
Rock Crystal Quartz		399907	Extrapone® Rock Crystal GW
Rooibos Aspalathus Linearis	<u>anti-aging</u> , anti-allergenic, antimicrobial, <u>antioxidant</u> , <u>hair color protecting</u> , protecting, <u>skin soothing</u>	683341 341904	Extrapone® Rooibos GW <u>Neo Actipone® Organic Rooibos</u> 

SEA BUCKTHORN

Sea buckthorn is well known for its high vitamin C content. But did you know that it also has a proven skin brightening effect?





Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name
Rose Rosa Damascena	anti-aging, anti-irritant, antimicrobial, <u>antioxidant</u> , astringent, deodorant, moisturizing, refreshing, stimulant	111872 510496 677055 680208 396631 841290	Extrapone® Moroccan Rose GW Extrapone® Rose Milk N <u>Flowerconcentrole® Rose</u> Flowerpone® Rose Rose Blossom Water Rose CL forte
Rose Geranium Pelargonium Graveolens	anti-aging, anti-cellulite, anti-irritant, antimicrobial, <u>antioxidant</u> , astringent, deodorant, <u>skin firming</u> , stimulant	982134 313362 677056 206568	<u>Actipone® Rose Geranium</u> Allplant Essence Organic Rose Geranium  <u>Flowerconcentrole® Rose Geranium</u> Flowerpone® Rose Geranium
Rose Hip Rosa Canina	antimicrobial, antioxidant, astringent, hair care, refreshing	185344	Extrapone® Rose Hip (Organic) GW 
Rose Quartz Quartz		399908	Extrapone® Rose Quartz GW
Rosemary Rosmarinus Officinalis	anti-cellulite, anti-dandruff, anti-irritant, antimicrobial, <u>antioxidant</u> , astringent, deodorant, hair care, purifying, <u>skin brightening</u> , <u>skin soothing</u> , stimulant	605408 660407 313684	<u>Actipone® Rosemary</u> <u>Actipone® Rosemary GW</u> <u>Allplant Essence Organic Rosemary</u> 
Royal Jelly Royal Jelly	anti-aging, anti-irritant, antimicrobial, antioxidant, skin lightening, stimulant	134075	Extrapone® Royal Jelly
Ruby Ruby		399926	Extrapone® Ruby GW
Rye Secale Cereale	antioxidant	299409	Extrapone® Rye GW
Saffron Crocus Sativus	anti-aging, anti-irritant, antioxidant, skin lightening, stimulant	142254	Extrapone® Saffron
Sage Salvia Officinalis	anti-dandruff, anti-irritant, antimicrobial, antioxidant, astringent, deodorant, hair care, purifying, stimulant	314529 660409	Allplant Essence Organic Sage  Extrapone® Sage GW
Sandalwood Santalum album	anti-irritant, antimicrobial, astringent, moisturizing, refreshing, stimulant	626920	Extrapone® Sandalwood
Sea Buckthorn Hippophae Rhamnoides	<u>antioxidant</u> , astringent, protecting, <u>skin brightening</u> , stimulant	399978	<u>Actipone® Sea Buckthorn GW</u>
Sea Salt Sea Salt	antimicrobial, astringent, deodorant, skin lightening, softening, stimulant, purifying	510876	Extrapone® Fleur de Sel GW
Sea Silt Sea Silt	anti-aging, anti-irritant	415216	Extrapone® Sea Silt
Seaweed Fucus Vesiculosus	anti-aging, anti-cellulite, anti-irritant, emollient, hair care, smoothing, stimulant	399880 616476	Extrapone® Seaweed Phytoconcentrole® Seaweed

Product List



SHEA BUTTER

Shea butter is known as “women’s gold” in its native Africa, where it has been used in beauty treatments for centuries.

Symrise shea butter is sustainable, fairly traded, certified organic, and sourced in Ghana. The shea butter project there helps to improve the economic situation of women in the poorest region of Ghana so that they can support their families and obtain access to health services and schools for their children.

Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name
Shea Butter Butyrospermum Parkii	anti-aging, anti-irritant, antioxidant , emollient, moisturizing, protecting, smoothing* , softening* * sensory assessment	151816 103565 103559 959567 959569	Phytoconcentrole® Shea Butter Shea Butter Fair Trade (refined)  Shea Butter (Organic)  Shea Butter sustainable Shea Butter (refined) sustainable
Shiitake Lentinus Edodes	anti-aging, anti-irritant, antimicrobial, antioxidant , skin lightening	510047	Actipone® Shiitake (Xiang Xun) GW
Silk Hydrolyzed Silk	anti-aging, anti-irritant, antimicrobial, antioxidant, hair care, skin lightening, moisturizing, protecting, smoothing	510393 510424	Extrapone® Silk GW N Extrapone® Silk Milk N
Sophora Sophora Japonica	anti-aging , anti-irritant, antimicrobial, antioxidant , moisturizing, protecting, skin soothing	102909	Actipone® Sophora Flower (Huai Hua)
Soy Glycine Soja	emollient	152540	Extrapone® Soy GW
Spelt Hydrolyzed Spelt Starch		299283	Extrapone® Spelt GW
St. John's Wort Hypericum Perforatum	anti-irritant, antimicrobial, antioxidant, astringent, emollient, protecting, stimulant	659768	Phytoconcentrole® St. John's Wort
Stinging Nettle Urtica Dioica	anti-allergenic, anti-dandruff, anti-irritant, antimicrobial, astringent, hair care, stimulant	676792	Extrapone® Stinging Nettle
Strawberry Fragaria Ananassa	antioxidant, astringent	101390	Fruitapone® Strawberry B

Name Latin name	Properties Literature, <u>in-vitro</u> data	Number	Product name	
Tangerine Citrus Tangerina	antimicrobial, antioxidant	635661	Extrapone® Tangerine	T
Thermus Thermophilus Thermus Thermophilus	antioxidant, protecting	415238	Extrapone® Deep Sea GW	
Thyme Thymus Vulgaris	anti-cellulite, anti-dandruff, anti-irritant, anti-itching, antimicrobial, antioxidant, astringent, deodorant, hair care, purifying, <u>skin brightening</u> , stimulant	314789 683214	<u>Allplant Essence Organic Thyme</u>  Extrapone® Thyme GW	
Tiger Grass Centella Asiatica	anti-aging, anti-allergenic, anti-cellulite, anti-irritant, antimicrobial, antioxidant, astringent, hair care, protecting, purifying, smoothing, stimulant	149192	Extrapone® Tiger Grass GW	
Tomato Solanum Lycopersicum	antimicrobial, antioxidant, astringent, hair care	618902	Extrapone® Tomato GW	
Tuberose Polianthes Tuberosa	<u>antioxidant</u>	677221 206566	<u>Flowerconcentrole® Tuberose</u> Flowerpone® Tuberose	
Vanilla Vanilla Planifolia	antimicrobial, antioxidant, stimulant	189904 257370	Extrapone® Vanilla Extrapone® Vanilla Fair Trade/ Sustain.	V
Verbena Lippia Citriodora	antimicrobial, refreshing, <u>skin brightening</u> , stimulant	400120	<u>Allplant Essence Organic Verbena</u> 	
Volcanic Water Water	moisturizing	252436	Extrapone® Volcanic Water GW	
Walnut Juglans Regia	anti-itching, antimicrobial, <u>antioxidant</u> , astringent, hair care, <u>hair color protecting</u> , purifying, <u>skin soothing</u> , stimulant	510077 660222	<u>Actipone® Walnut Tree Wood</u> Extrapone® Walnut	W
Wasabi Wasabia Japonica	antimicrobial, antioxidant	180848	Extrapone® Wasabi GW	
Watermint Mentha Aquatica	antimicrobial, antioxidant, astringent, refreshing, <u>skin brightening</u> , stimulant	311587 646317	<u>Allplant Essence Organic Mint</u>  Extrapone® Watermint P	
Wheat Triticum Vulgare	anti-irritant, antimicrobial, antioxidant, emollient, hair care, moisturizing	647150	Extrapone® Wheat GW P	
Whey Whey	anti-irritant, antimicrobial, antioxidant	510533	Extrapone® Whey N	
White Tea Camellia Sinensis	anti-irritant, antimicrobial, <u>antioxidant</u> , astringent, emollient, hair care, moisturizing, protecting, stimulant	271274 600743	<u>Actipone® White Tea (Organic) GW</u>  Neo Extrapone® Organic White Tea	
Witch Hazel Hamamelis Virginiana	<u>anti-aging</u> , anti-dandruff, anti-irritant, anti-itching, antimicrobial, antioxidant, astringent, deodorant, protecting, <u>skin soothing</u> , stimulant	660238 660123 660392 185337 659801	<u>Actipone® Witch Hazel</u> Extrapone® Witch Hazel Dist. Colorless Extrapone® Witch Hazel GW Extrapone® Witch Hazel (Organic) GW  Witch Hazel Distillate	
Ylang Ylang Cananga Odorata	antimicrobial, deodorant, hair care, stimulant	966210	Extrapone® Ylang Ylang GW	Y
Yuzu Citrus Junos	<u>antioxidant</u>	950439	<u>Neo Actipone® Yuzu</u>	
Zucchini Cucurbita Pepo Giromontiina	<u>antioxidant</u> , cooling	374982	<u>Actipone® Zucchini GW</u>	Z

Assay Description

for in-vitro data

ANTI-AGING

Glutathione

This cellular assay is performed with human immortalized keratinocytes (HaCaT). The assay is based on the fluorometric properties of monochlorobimane (mBCI). This dye penetrates into living cells and reacts with glutathione. A high amount of glutathione leads to a high fluorometric signal.

Sirtuin

This cellular assay is performed with normal human dermal fibroblasts (NHDF). An antibody, that carries a fluorescent dye specifically binds to the sirtuin protein. The amount of color is proportional to the amount of sirtuin protein.

Collagen

This cellular test is performed with normal human dermal fibroblasts (NHDF). The assay is based on the dye Sirius red, which specifically binds to the helical structure of fibrillar collagen and can be detected by photometric measurement.

MMP1 und 9

In this cell-free assay, MMP enzyme activity is measured spectrophotometrically with the aid of the following kits:

MMP-1 Biotrak Activity Assay (GE Healthcare/Amersham), RPN2629

MMP-9 Biotrak Activity Assay (GE Healthcare/Amersham), RPN2634

ANTI-IRRITANT

IL-1 alpha

This cellular assay is performed with human immortal keratinocytes (HaCaT). Cell lysates are taken for the quantification of IL-1 alpha using ELISA technique. IL-1 alpha content is detected by photometric measurement.





COX-2

In this cell-free assay, the enzyme-activity of cyclooxygenase-2 is used to convert arachidonic acid to PGH₂. Driven by this reaction, the co-substrate ADHP is converted to the strongly fluorescent product resorufine. The measured content of resorufine is proportional to the COX-2 activity.

PGE₂

This cellular assay is performed with normal human dermal keratinocytes (NHEK). Supernatants are taken for the quantification of PGE₂ using competitive ELISA technique. PGE₂ content is detected by photometric measurement.

ANTIOXIDANT

DPPH

Based on the stable violet radical 2,2-diphenyl-1-picrylhydrazyl (DPPH). Reduction of this radical by antioxidants results in decolorization which can be measured spectrophotometrically.

ABTS

Based on the reduction of the relatively stable blue/green 2,2'-azinobis-(3-ethyl-benzothiazoline-6-sulfonate) (ABTS) radical cation. Antioxidants convert it into a colorless product.

DCF

This cellular test is performed with normal human dermal fibroblasts (NHDF) and is based on the intracellular conversion of dichloro-fluorescein diacetate (H2DCF-DA) into the fluorescent dichlorofluorescein (DCF) in the presence of reactive oxygen species.

HAIR COLOR PROTECTION

Colored hair strands are treated with the dissolved active ingredient, dried and stressed by UV irradiation. Then color protection is calculated by comparison of the color before and after stressing of the hair.

SKIN BRIGHTENING

Melanin

This cellular test is performed with B16V mouse melanoma cells. After the lysis of the cells the melanin content can be detected by photometric measurement.

Tyrosinase

The assay is based on a controlled oxidation of L-tyrosine to dopachrome by the enzyme tyrosinase. The colored dopachrome can be detected by photometric measurement.

SKIN FIRMING

Adipogenesis

Adipogenesis is performed on confluent 3T3-L1 preadipocytes. Using special differentiation medium preadipocytes differentiate to adipocytes. Formed lipid droplets can be stained and measured using fluorescent Nile Red.

Lipogenesis

Based on the hydrolysis of 4-methylumbelliferyl-oleate to 4-methylumbelliferon by lipase. The fluorescent character of the product enables a quantification of the lipase activity.

Lipolysis

Glycerol release is tested on confluent differentiated 3T3-L1 cells. Glycerol of the supernatant reacts to quinoneimine dye using some coupled enzyme reactions. Increase of absorption is proportional to the concentration of free glycerol.

A natural choice for the
**benefit of the
consumer**





Efficacy List

as described in literature
in-vitro data available

ANTI-AGING

Acai	Ivy
<u>Aloe Vera</u>	Kiwi
Amla	<u>Laminaria Saccharina</u>
<u>Angelica</u>	Lemon
Argan	Magnolia
Black Currant	Myrrh
Black Tea	Oat
Bordeaux	Orange Flower
Carrot	Passion Fruit
<u>Cherry Wood</u>	Pearl
Clary Sage	Pomegranate
Cornflower	<u>Rooibos</u>
Curcuma	Rose
Dragonfruit	Rose Geranium
<u>Echinacea</u>	Royal Jelly
Ginkgo Biloba	Saffron
Ginseng	Sea Silt
Goji	Seaweed
Grape	Sheabutter
Green Tea	Shiitake
<u>Honey Locust</u>	Silk
Horse Chestnut	<u>Sophora</u>
<u>Hortensia</u>	Tiger Grass
Indian Berberine	<u>Witch Hazel</u>

ANTI-ALLERGENIC

Black Rice	Lavandula
Echinacea	Lavender
Ginkgo Biloba	Licorice
Ginseng	Magnolia
Hibiscus	Rooibos
Hortensia	Stinging Nettle
Indian Berberine	Tiger Grass

ANTI-CELLULITE

<u>Fennel</u>	<u>Licorice</u>
<u>Honey Locust</u>	<u>Orange Flower</u>
Hop	<u>Rose Geranium</u>
Horse Chestnut	Rosemary
Horsetail	Seaweed
Ivy	Thyme
Juniper	Tiger Grass
Laminaria Saccharina	

ANTI-DANDRUFF

Arnica	Lavandula
Artichoke	Lavender
Birch	Lemon
Camomile	Lemongrass
Clary Sage	Rosemary
Henna	Sage
Hop	Stinging Nettle
Ivy	Thyme
Laurel	Witch Hazel

Efficacy List

as described in literature

in-vitro data available

ANTI-IRRITANT

Acacia

Acai

Almond

Aloe Vera

Angelica

Apothecary Rose

Apricot

Argan

Arnica

Aronia

Ash

Asparagus

Avocado

Bamboo

Banana

Baobab

Basil

Beetroot

Birch

Black Rice

Black Tea

Blueberry

Bordeaux

Camomile

Camu Camu

Carrot

Champagne

Cherry Wood

Chrysanthemum

Clary Sage

Cocoa

Coriolus

Cornflower

Cucumber

Curcuma

Dandelion

Echinacea

Elder

Fennel

Fig

Ginger

Ginkgo Biloba

Ginseng

Grape

Grape Seed

Green Tea

Henna

Hibiscus

Honey

Honey Locust

Honeybush

Honeydew Melon

Honeysuckle

Hop

Horse Chestnut

Horsetail

Hortensia

Ivy

Jasmine

Juniper

Laminaria Digitata

Laminaria Saccharina

Laurel

Lavandula

Lavender

Licorice

Lime

Linden

Lotus

Magnolia

Mallow

Mandarin Orange

Marigold

Melissa

Myrrh

Neem

Noni

Nutgrass

Oak

Oat

Olive

Orange

Oregano

Oyster Shell

Palmaria Palmata

Papaya

Passion Flower

Passion Fruit

Peppermint

Pineapple

Pueraria

Reishi

Rice

Rooibos

Rose

Rose Geranium

Rosemary

Royal Jelly

Saffron

Sage

Sandalwood

Sea Silt

Seaweed

Shea Butter

Shiitake

Silk

Sophora

St. John's Wort

Stinging Nettle

Thyme

Tiger Grass

Walnut Wood

Wheat

Whey

White Tea

Witch Hazel



ANTI-ITCHING

Aloe Vera

Black Rice

Camomile

Cucumber

Honeysuckle

Hop

Lemon

Mallow

Marigold

Oat

Peppermint

Thyme

Walnut

Witch Hazel



ANTI-MICROBIAL

Acaia	Henna
Almond	Hibiscus
Angelica	Honey
Apricot	Honeybush
Arnica	Honeysuckle
Artichoke	Hop
Asparagus	Horse Chestnut
Avocado	Hortensia
Bamboo	Ivy
Baobab	Jasmine
Basil	Juniper
Beetroot	Kiwi
Bel	Laminaria Saccharina
Birch	Laurel
Black Pepper	Lavandula
Blueberry	Lavender
Camomile	Lemon
Camu Camu	Lemongrass
Cardamom	Licorice
Carrot	Lime
Chrysanthemum	Lotus
Cinnamon	Magnolia
Clary Sage	Maitake
Cocoa	Mallow
Coconut	Marigold
Coriolus	Melissa
Cornflower	Mulberry
Cotton	<u>Myrrh</u>
Cranberry	Neem
Cucumber	Nutgrass
Curcuma	Oak
Dandelion	Oat
Echinacea	Olive
Eucalyptus	Orange
Fennel	Oregano
Ginger	Papaya
Ginkgo Biloba	Peppermint
Goji	Pueraria
Grapefruit	Quinoa



Raspberry	Stinging Nettle
Reishi	Tangerine
Rooibos	Tea
Rose	Thyme
Rose Geranium	Tiger Grass
Rose Hip	Tomato
Rosemary	Vanilla
Royal Jelly	Verbena
Sage	Walnut
Sandalwood	Wasabi
Sea Salt	Watermint
Shiitake	Wheat
Silk	Whey
Sophora	Witch Hazel
St. John's Wort	Ylang Ylang

Efficacy List

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ANTIOXIDANT

Acai

Acerola
Aloe Vera
Amaranth

Amla

Angelica
Apple
Apricot

Argan

Aronia

Artichoke

Ash

Asparagus

Auricularia
Bamboo
Banana

Baobab

Barley
Basil

Beetroot

Bel
Bengkoang

Black Coffee

Black Currant

Black Pepper

Black Raspberry

Black Rice

Black Tea

Blackberry

Blueberry

Bordeaux

Camu Camu

Champagne

Cherry Wood

Cherry Fruit

Cinnamon

Clary Sage

Cocoa

Coconut

Corail

Coriolus

Cornflower

Cranberry

Curcuma

Dragonfruit

Echinacea

Elderberry

Eucalyptus

Fennel

Fig

Frangipani

Ginger

Ginkgo Biloba

Ginseng

Goji

Grape

Grape Seed

Grapefruit

Green Tea

Guava

Hibiscus

Honey

Honey Locust

Honeybush

Honeydew Melon

Honeysuckle

Hop

Horse Chestnut

Indian Berberine

Ivy

Jasmine

Juniper

Kamut

Laminaria Saccharina

Lavender

Lemon

Lemongrass

Licorice

Lotus

Lychee

Macadamia

Magnolia

Mandarin Orange

Mango

Marigold

Melissa

Millet

Neem

Noni

Oat

Olive

Orange Flower

Orange Fruit

Palmaria Palmata

Papaya

Passion Flower

Peach

Pearl

Pineapple

Pomegranate

Pueraria

Pumpkin

Quinoa

Raspberry

Reishi

Rice

Rooibos

Rose

Rose Geranium

Rose Hip

Rosemary

Royal Jelly

Rye

Saffron

Sage

Sea Buckthorn

Shea Butter

Shiitake

Silk

Sophora

St. John's Wort

Strawberry

Tangerine

Thermus Thermophilus

Thyme

Tiger Grass

Tomato

Tuberose

Vanilla

Walnut Wood

Wasabi

Watermint

Wheat

Whey

White Tea

Witch Hazel

Yuzu

Zucchini

DEODORANT

Camomile	Peppermint
Cardamom	Rose
Cinnamon	Rose Geranium
Clary Sage	Rosemary
Hayflower	Sage
Henna	Sea Salt
Juniper	Thyme
Lavender	Witch Hazel
Lemongrass	Ylang Ylang
Orange Flower	



ASTRINGENT

Acacia	Mango
Acai	Marigold
Amla	Mulberry
Apple	Myrrh
Ash	Neem
Banana	Nutgrass
Bel	Oak
Birch	Olive
Black Tea	Orange Flower
Blueberry	Oyster Shell
Cactus Flower	Passion Fruit
Cinnamon	Peppermint
Clary Sage	Pomegranate
Cornflower	Rose
Cucumber	Rose Geranium
Dandelion	Rose Hip
Elder	Rosemary
Eucalyptus	Sage
Green Tea	Sandalwood
Guarana	Sea Buckthorn
Henna	Sea Salt
Honeysuckle	St. John's Wort
Hop	Stinging Nettle
Horse Chestnut	Strawberry
Horsetail	Thyme
Ivy	Tiger Grass
Juniper	Tomato
Lemon	Walnut
Lemongrass	Watermint
Licorice	White Tea
Lotus	Witch Hazel
Mallow	



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EMOLLIENT

Almond	Licorice
Aloe Vera	Linden
Avocado	Macadamia
Black Tea	Mallow
Carrot	Marigold
Cocoa	Olive
Coconut	Rice
Cucumber	Seaweed
Fig	Shea Butter
Grape Seed	Soy
Green Tea	St. John's Wort
Hop	Wheat
Jojoba	White Tea

HAIR CARE

Amla	Jojoba
Apple	Lemongrass
Arnica	Olive
Avocado	Orange Flower
Basil	Rose Hip
Black Tea	Rosemary
Camomile	Sage
Clary Sage	Seaweed
Coconut	Silk
Ginger	Stinging Nettle
Ginseng	Thyme
Goji	Tiger Grass
Green Tea	Tomato
Henna	Walnut
Honey	Wheat
Hop	White Tea
Horsetail	Ylang Ylang

HAIR COLOR PROTECTING

Aloe Vera
Grape Seed
Rooibos
Walnut Wood



MOISTURIZING

African Water	Honey
Almond	Honeydew Melon
Aloe Vera	Jojoba
Apple	Laminaria Digitata
Argan	Macadamia
Black Tea	Milk
Camomile	New Zealander Water
Canadian Water	Orange
Coconut	Patagonian Water
Cornflower	Peach
Cucumber	Pearl
Dandelion	Rose
Elder	Sandalwood
Fennel	Shea Butter
Fijian Water	Silk
Ginseng	Sophora
Glacier Water	Volcanic Water
Grape	Wheat
Green Tea	White Tea





SMOOTHING

Acai
 Apple
 Barley
 Bengkoang
 Carrot
 Ginseng
 Grapefruit
 Hop
 Laminaria Digitata
 Licorice
 Linden
 Mallow
 Millet
 Olive
 Passion Flower
 Pearl
 Seaweed
Shea Butter
 Silk
 Tiger Grass

PROTECTING

Argan	Mulberry
Black Tea	Orange Fruit
Cocoa	Passion Flower
Elder	Rice
Ginger	Rooibos
Ginkgo Biloba	Sea Buckthorn
Grape	Shea Butter
Grape Seed	Silk
Green Tea	Sophora
Hibiscus	St. John's Wort
Laminaria Digitata	Thermus Thermophilus
Licorice	Tiger Grass
Mallow	White Tea
Marigold	Witch Hazel

PURIFYING

Birch	Orange Fruit
Camomile	Papaya
Cinnamon	Passion Flower
Dandelion	Peppermint
Fennel	Rosemary
Hayflower	Sage
Henna	Sea Salt
Honeydew Melon	Thyme
Lavender	Tiger Grass
Lemon	Walnut
Milk	
Myrrh	
Neem	
Orange Flower	

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REFRESHING

Amla
Apothecary Rose
Baobab
Bel
Camomile
Carrot
Chrysanthemum
Cinnamon
Cornflower
Cranberry
Cucumber
Dandelion
Elder
Grapefruit
Henna
Lavender
Lemon
Linden
Olive
Orange Fruit
Peppermint
Pomegranate
Pueraria
Rose
Rose Hip
Sandalwood
Verbena
Watermint



SKIN LIGHTENING

Angelica	Pearl
<u>Bengkoang</u>	<u>Rosemary</u>
Dandelion	Royal Jelly
<u>Lavandula</u>	Saffron
Lemon	<u>Sea Buckthorn</u>
Licorice	Sea Salt
Magnolia	Shiitake
Milk	Silk
<u>Mulberry</u>	<u>Thyme</u>
<u>Nutgrass</u>	<u>Verbena</u>
<u>Oregano</u>	<u>Watermint</u>
<u>Papaya</u>	



STIMULANT

Acacia	Cornflower	Lavender	Saffron
Aloe Vera	Dandelion	Lemon	Sage
Amber	Elder	Lemongrass	Sandalwood
Amla	Fennel	Licorice	Sea Buckthorn
Angelica	Ginger	Lychee	Sea Salt
Arnica	Ginkgo Biloba	Marigold	Seaweed
Ash	Ginseng	Melissa	St. John's Wort
Asparagus	Goji	Myrrh	Stinging Nettle
Basil	Grapefruit	Neem	Thyme
Beetroot	Green Tea	Nutgrass	Tiger Grass
Birch	Guarana	Olive	Vanilla
Black Coffee	Hayflower	Orange Flower	Verbena
Black Pepper	Hop	Orange Fruit	Walnut
Black Tea	Horse Chestnut	Oregano	Watermint
Blueberry	Hortensia	Pearl	White Tea
Cactus Flower	Indian Berberine	Peppermint	Witch Hazel
Camomile	Ivy	Pomegranate	Ylang Ylang
Cardamom	Jasmine	Rose	
Cinnamon	Juniper	Rose Geranium	
Clary Sage	Laminaria Digitata	Rosemary	
Cocoa	Lavandula	Royal Jelly	



Botanicals for any kind of

product application



EXTRACTS	APPLICATIONS	Surfactant water-based products	Emulsions	Water-free products	Aqueous-alcoholic products	Colorless products
Actipone® Extrapone® Extrapone® GW Extrapone® Neo Fruitapone®		•	•		•	
Allplant Essence		•	•		•	•
CL-Extracts		•	•		•	•
Distillates		•	•		•	•
Extrapone® Milk		•	•			
Flowerpone®		•			•	
Flowerconcentrole®		•	•	•		
Phytoconcentrole® Plant Oils			•	•		



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