

A hand is shown holding a bouquet of small, delicate white flowers with green foliage. The background is a soft-focus landscape with a bright, low sun creating a warm, golden glow and lens flare. A white cloth with a subtle pattern is visible on the left side of the frame.

## **BOTANICAL INSPIRATIONS**

Feel nature's variety.







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# PURE NATURE

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“Nature itself is the best physician.”  
(Hippocrates)

Since the dawn of time, people have placed their trust in nature when it comes to their personal hygiene rituals. Today, this tendency manifests itself in the trend towards more and more personal care products with natural components. In comparison to conventional cosmetics, this category has been developing at a disproportionately high rate for years. Botanical extracts are a key component in modern formulations for natural and nature-inspired cosmetics. Extracts from flowers, leaves, roots etc. represent nature in its purest form.

Bell Flavors & Fragrances boasts a long tradition of botanical extraction. At the end of the 19th century, one of our founding companies, Schimmel & Co., launched its worldwide success story with the oil of Centifolia roses cultivated in Leipzig. Today, our Botanicals Division continues this legacy. In modern extraction and distillation facilities, we obtain extracts using various solvents that are precisely tailored to our customers' needs. We are continually expanding our portfolio. Besides the classics, we also develop unique products like extract combinations – so-called blends – which allow several plants to be combined into one product.

Our portfolio includes a broad spectrum of extracts from both conventional sources and controlled organic cultivation. In this catalogue you can uncover some of our bestsellers and new products designed to be used in personal care products like shower gel, shampoo or deodorant. As a leading manufacturer of compelling fragrance compositions and plant extracts, we provide customised fragrances to match your selected essence.

Get inspired!









# LEAVES

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## Solar Panels of the Plants

Whether tender like a lime leaf, thick as a cactus or spiky – we encounter leaves in a wide variety of manifestations. But they all have one thing in common. As natural “solar panels”, leaves absorb light and carry out photosynthesis.

Carbon dioxide and water, together with light, work the miracle that gives the plant energy and makes it produce the most beautiful flowers and nutritious fruits. To produce only one gram of sugar in one hour, a whole square metre of leaf surface is required.

Simultaneously, leaves regulate a plant’s ability to retain moisture. They act as sponges, absorbing moisture from the air and trapping it in the plant when the air becomes too hot. Depending on the geographical situation, this triggers the formation of thorns or fleshy succulents.



## HIGHLIGHT

# CENTELLA

Centella, also known as Asiatic penny grass, is a wetland plant native to Asia. It only grows in very wet areas and traditionally has been used as a medicinal plant for many generations, most notably in China, India and Indonesia.

According to legend, wounded Bengal tigers rolled in the plant's leaves to heal their wounds. The German name for the plant is in fact "Tigergras" (tiger grass). In cosmetics, the extracts are said to have regenerative effects.

	Properties	A	Dist	PW	Gly	w.s.	o.s.	A/Gly/W	SD	Org	Latin Name
<b>Aloe</b>	moisturising	+		+	+		+			+	Aloe barbadensis
<b>Balm Mint</b>	skin conditioning	+		+	+		+	+		+	Melissa officinalis
<b>Birch</b>	soothing	+		+	+		+			+	Betula alba
<b>Centella</b>	skin conditioning	+		+	+		+				Centella asiatica
<b>Nettle</b>	skin conditioning	+			+		+		+	+	Urtica dioica

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## HIGHLIGHT

# WITCH HAZEL

The name “witch hazel” was given to this mysterious, wondrous bush which was once only found in the humid forests of Virginia by the indigenous people of North America. There are several reasons why its fruit, the witch hazel “magic nut”, bears this name.

Even at minus ten degrees, half covered in snow, the plant’s flower tufts reach into the winter air like small rays of sunlight. Witch hazel is thought to be able to contract injured tissue, promote blood clotting and prevent inflammation before it can develop.



	Properties	A	Dist	PW	Gly	w.s.	o.s.	A/Gly/W	SD	Org	Latin Name
Olive	skin conditioning	+		+	+		+	+		+	Olea europaea
Peppermint	skin conditioning	+		+	+		+			+	Mentha piperita
Rockrose	skin protecting	+			+						Cistus incanus
Tea	antimicrobial	+		+	+		+		+	+	Camellia sinensis
Witch Hazel	skin conditioning	+	+	+	+		+			+	Hamamelis virginiana

### Note

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# FLOWERS

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## Natural Beauties

As the ornament of any plant, flowers are often the reason why so many of them find their way into our gardens or homes. Depending on how the sepals, corolla, stamen and pistils are positioned, the flowers appear as funnels, bells or radial beauties. Their scent enchants us, and stays in our memory as a representative of the plant. In many cases, their perfume goes hand in hand with the associated effect – whether that be calming, stimulating or refreshing.

Bewitching fragrances and bright colours attract the insects that eventually help fertilise the flowers, producing a variety of fruits.

Incidentally, the time a plant blooms does not necessarily depend on bright sunshine. For example, short-day plants like morning glories or hemp rely on a long dark period to give them the cue to bloom.



## HIGHLIGHT

# CACTUS FLOWER

The history of the cacti from Latin America is as multifaceted as are their shapes. Indigenous people considered some types of cactus to be good and beneficial, others were surrounded by auras of magic and demons.

This prickly monarch is a survivor. It transformed its leaves into thorns to minimise evaporation, and it stores water in its tissues for long periods of time. It is these properties that make this prickly desert plant so attractive in beauty treatments. Cactus blossoms have a calming effect and can hydrate the skin for hours.

	Properties	A	Dist	PW	Gly	w.s.	o.s.	A/Gly/W	SD	Org	Latin Name
<b>Cactus Flower</b>	skin conditioning	+		+	+		+				Cereus grandiflorus, Opuntia spec.
<b>Chamomile</b>	masking	+	+	+	+		+		+	+	Chamomilla recutita
<b>Cornflower</b>	skin conditioning	+		+			+			+	Centaurea cyanus
<b>Hibiscus</b>	skin conditioning	+		+	+		+			+	Hibiscus sabdariffa
<b>Jasmine</b>	perfuming	+		+	+		+				Jasminum officinale

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## HIGHLIGHT

# LOTUS

The Indian lotus flower's name roughly translates to "treasured plant". Lotus flowers grow from a bed of muddy water, rise above the water's surface, where they bloom beautifully and majestically with fascinating colour nuances. When the sun sets, the lotus, with its closed flowers, sinks down into the water's depths, only to reappear and unfold in all its glory on the surface with the rising sun.

The fact that the plant became a symbol of purity is because of its extraordinary ability to repel water and dirt particles with its knobby leaf surfaces – known as the lotus effect. The lotus blossom is prized especially for its nourishing effects on the skin.



	Properties	A	Dist	PW	Gly	w.s.	o.s.	A/Gly/W	SD	Org	Latin Name
Lavender	deodorising	+		+	+					+	Lavandula angustifolia
Lotus	skin conditioning	+		+	+					+	Nelumbo nucifera
Marigold	masking	+		+	+		+			+	Calendula officinalis
Rose	tonic	+		+	+		+	+		+	Rosa gallica, Rosa damascena
Ylang-Ylang	perfuming	+		+	+						Cananga odorata

### Note

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# FRUITS

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## Perfectly Ripe

Even when we were hunters and gatherers we valued fruits for more than just their taste. After the fertilisation of the ovules, plants concentrate all their efforts and, as the culmination of plant activity, produce nutritious fruits in a wide variety of forms.

Humans and animals have always known how to savour different flavours. Refreshingly juicy, sour or sweet and rich, fruits don't just fill stomachs. In many cases, the sheer complexity of berries, nuts or citrus fruits makes them ideal cosmetics products. The high water content of many fruits indicates that they can also moisturise skin and hair.

On top of that, there are valuable nutrients such as antioxidants, which are said to slow down cell ageing. Today, even alleged waste products, like the shell of the coconut, are used in personal care products – for example in exfoliants.



## HIGHLIGHT

# FIG

The fig tree is part of the mulberry family and grows in warm, sunny areas, mainly in the Mediterranean region but also as far away as India.

Over the summer, fertilised blossoms become fruits that turn blue-violet in the south and often stay green in Central Europe, but these are also juicy and sweet. Not only are figs tasty, they also have considerable health effects. When applied externally, the fig has a moisturising effect and helps maintain the natural skin barrier.

	Properties	A	Dist	PW	Gly	w.s.	o.s.	A/Gly/W	SD	Org	Latin Name
<b>Blackberry</b>	tonic	+			+						Rubus fruticosus
<b>Coconut</b>	abrasive	+		+	+		+			+	Cocos nucifera
<b>Fig</b>	moisturising	+		+	+		+				Ficus carica
<b>Grapefruit</b>	skin conditioning	+		+	+		+			+	Citrus paradisi
<b>Lemon</b>	skin protecting	+		+	+					+	Citrus limon

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## HIGHLIGHT

# PITAHAYA

The fruit of the pitahaya plant is impressive and bizarrely beautiful. The cactus grows as several branches, which can be as tall as five metres.

The exotic fruit gets its nickname from its appearance: It is called dragon fruit because of its leathery, prickly skin. But the fruit's appearance is by no means terrifying. In fact, the different varieties of pitahaya come in the most dazzling colours. Dragon fruit is rich in antioxidants. Consequently, these little dragons can help protect skin from free radicals.



	Properties	A	Dist	PW	Gly	w.s.	o.s.	A/Gly/W	SD	Org	Latin Name
<b>Mango</b>	skin conditioning	+		+	+						Mangifera indica
<b>Orange</b>	skin conditioning	+		+	+		+			+	Citrus aurantium amara, Citrus aurantium dulcis
<b>Pitahaya</b>	skin protecting	+		+	+						Hylocereus undatus
<b>Pomegranate</b>	skin conditioning	+		+	+						Punica granatum
<b>Raspberry</b>	smoothing	+		+	+						Rubus idaeus

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# ROOTS

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## Heroes of the Dark

Many of them live a life in the dark – either underground or as aerial roots under huge leaves of plants with even more beautiful flowers. However, apart from the leaves, roots are an essential link between the plant and the outside world. They draw vital minerals and water from the soil and the air that surrounds them. In fact, some roots have a double function and are the actual fruit of the plant, like potatoes.

The regenerative ability of many roots is fascinating. They are constantly reaching out deeper and further into the earth with their fine digging root hairs. The high number of these hairs increases the root surface tremendously. Rye plants are estimated to have more than ten billion of them. If these hairs were placed one after the other, their total distance would stretch more than 10,000 kilometres.



## HIGHLIGHT

# CUP FLOWER

The cup flower is an inconspicuous herbaceous dwarf shrub – except in spring when its flowers unfurl in all their splendour over vast areas of the eastern Mediterranean, then no one can deny their true beauty. From February to April, the mainly female flowers give the plant a pinkish-red glow.

Roots, along with flowers and leaves, have been used in herbal medicine for several hundred years. Today the extract is becoming increasingly popular in modern skin care.

	Properties	A	Dist	PW	Gly	w.s.	o.s.	A/Gly/W	SD	Org	Latin Name
Angelica	masking	+		+	+		+				Angelica archangelica
Burdock	skin conditioning	+		+	+						Arctium lappa
Cup flower	skin conditioning	+		+	+		+				Sarcopoterium spinosum
Curcuma	skin conditioning	+		+	+		+				Curcuma xanthorrhiza
Eleuthero	soothing	+		+	+		+				Acanthopanax senticosus

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## HIGHLIGHT

# CURCUMA

This magic tuber from India belongs to the ginger family. Descriptions such as “magic root” and “spice of life” suggest the therapeutic benefits of the root. Long regarded as sacred in India and highly appreciated by the ancient Greeks, curcuma is currently experiencing a remarkable renaissance.

The yellow root, also known as turmeric, is said to have an energising and cleansing effect. Its anti-inflammatory properties allegedly make it a pure plant antioxidant, which counteracts premature skin ageing.



	Properties	A	Dist	PW	Gly	w.s.	o.s.	A/Gly/W	SD	Org	Latin Name
<b>Gentian</b>	skin conditioning	+			+						Gentiana lutea
<b>Ginger</b>	tonic	+		+	+	+	+		+	+	Zingiber officinale
<b>Ginseng</b>	skin protecting	+		+	+		+				Panax ginseng
<b>Iris</b>	masking	+		+	+		+				Iris florentina
<b>Valerian</b>	skin conditioning	+		+	+		+				Valeriana officinalis

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# SPICES

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## Aromatic Treasures

After the flowers have faded and the fruits have been harvested, spices make their grand entrance. Spices spark delight in their dried leaf, flower, fruit, bark or root form, because of their intense aromas and flavours, which unfold particularly well when used as a seasoning in the kitchen. They have also always been used in medicine.

Unsurprisingly, even in antiquity, the desire to possess these spices led to adventurous undertakings. Long, hazardous journeys that took multiple years were not uncommon. Pepper was so valuable that it was sometimes measured against gold.

Their stimulating effect on body and soul also ensured that these aromatic products entered the world of care – some of them thousands of years ago: In ancient Egypt, spices were used for both ritual ceremonies and personal hygiene as early as some 2,500 years ago.



## HIGHLIGHT

# CARDAMOM

Worshipped in southern India as the queen of spices and poetically referred to as the scent of the Orient, this aromatic spice is an integral part of Asian cuisine and has become increasingly popular in Europe over the past few years.

Harvesting the spice is a laborious and time-consuming process. This makes cardamom one of the most expensive spices in the world. Thanks to its sensual scent and invigorating properties, cardamom is a popular ingredient in skin care products.

	Properties	A	Dist	PW	Gly	w.s.	o.s.	A/Gly/W	SD	Org	Latin Name
Cardamom	tonic	+		+	+		+				Elettaria cardamomum
Cinnamon	moisturising	+									Cinnamomum zeylanicum
Clove	perfuming	+		+	+		+				Eugenia caryophyllus
Juniper	perfuming	+		+	+		+				Juniperus communis
Nutmeg	skin conditioning	+		+	+		+				Myristica fragrans

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## HIGHLIGHT

# JUNIPER

This plant seems a bit scrubby and thorny. Standing tall or huddled against slopes, the evergreen juniper, which can reach a height of up to three metres, is an inhabitant of barren mountainsides, heaths and moors.

The so-called "fire tree" has played an important role as a seasoning and medicinal plant since antiquity. Ancient people believed that by burning the tree as incense, witches and demons could be driven away. Nowadays, juniper berries are particularly prized. Juniper is said to detoxify body and mind, and its pleasant fragrance makes it very useful for many personal care products.



	Properties	A	Dist	PW	Gly	w.s.	o.s.	A/Gly/W	SD	Org	Latin Name
Pepper	masking	+		+	+		+				Piper nigrum, Schinus terebinthifolius
Rosemary	antimicrobial	+		+	+		+	+		+	Rosmarinus officinalis
Sage	cleansing	+		+	+		+	+		+	Salvia officinalis
Tonka Bean	perfuming	+		+	+		+				Dipteryx odorata
Vanilla	skin conditioning	+		+	+		+				Vanilla planifolia

### Note

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# GRAINS

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## Beyond the daily bread

Domesticated grasses in every corner of the world serve humans primarily as food in the form of cereals. In this case, too, it is the fruit of the plant, namely the grains, that provide valuable nutrients. The sheer diversity of types opens up a wide range for other uses. Skin and hair, for example, can reap lasting benefits. A glance at the substances contained makes this impressively clear. A cereal grain essentially consists of a flour body made of starch and protein, a seedling containing fat, a seed coat and a fruit wall that have grown together. There is also the so-called aleurone layer that sits between the flour body and the husk.

The protein contained in some types of cereals is called gluten. There are also gluten-free grains, namely corn, rice, millet and bamboo.



## HIGHLIGHT

# HEMP

Hemp is one of the oldest and most valuable cultivations in the world. Just a few years ago, cannabis was only mentioned behind closed doors, but now the useful and ornamental plant is more present than ever.

Manufacturers of personal care products are taking advantage of this natural product's positive properties. Hemp is said to strengthen the immune system and counteract skin diseases. Rich in nutrients and vital substances, it is particularly recommended for sensitive skin, as hemp is said to strengthen the skin's moisture barrier.

	Properties	A	Dist	PW	Gly	w.s.	o.s.	A/Gly/W	SD	Org	Latin Name
<b>Buckwheat</b>	skin conditioning	+		+	+		+				Polygonum fagopyrum
<b>Chia</b>	emollient				+						Salvia hispanica
<b>Hemp</b>	emollient	+		+	+		+				Cannabis sativa
<b>Khorasan Wheat</b>	hair conditioning	+		+	+		+				Triticum turgidum × polonicum
<b>Millet</b>	smoothing	+		+	+		+				Panicum miliaceum

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## HIGHLIGHT

# TEFF

Teff, also called dwarf millet, is one of the cultivated millet species and is native to Ethiopia. It is considered to be the smallest grain in the world, because 150 grains of teff equal one grain of wheat.

They may be small, but teff grains are chock full of nutrients. It has already caught on in the kitchen as a superfood, so it is only a matter of time before it becomes the next big thing in beauty.



	Properties	A	Dist	PW	Gly	w.s.	o.s.	A/Gly/W	SD	Org	Latin Name
Oat	antioxidant	+		+	+					+	Avena sativa
Rice	hair conditioning	+		+	+		+			+	Oryza sativa
Sorghum	skin conditioning	+		+	+		+				Sorghum bicolor
Spelt	hair conditioning	+		+	+		+				Triticum aestivum
Teff	emollient	+		+	+						Eragrostis tef

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# BLENDS

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## Imaginative Combinations

As infinite as the journey through the world of plants may seem, the quest for the newest trends requires a look beyond forest and meadow. After all, modern personal care products thrive on fantasy and abstraction: Arctic crispness or the maritime diversity of a coral reef – so many motifs can be perfectly represented by extract mixtures, so-called blends. Herbal and fruit combinations are also popular profiles.

Blends represent innovative products whose composition requires a high degree of experience. The effort is worth it and often leads to unique results. Ultimately, a blend allows to claim all of the contained extracts and their associated effects on the packaging.



## HIGHLIGHT

# ALGAE

Algae is one of the oldest plants on earth. With more than 20,000 species worldwide, they are something like the chameleon of the aquatic plant world. Perfectly adapted, algae can live under any and every condition, be it the deep sea, salt or fresh water, hot springs, or in the ice of the Arctic.

Its ability to optimally store valuable nutrients is beneficial to our beauty. Algae extracts supply our skin with moisture and give it the necessary energy to protect itself from harmful environmental influences.

	Properties	A	Dist	PW	Gly	w.s.	o.s.	A/Gly/W	SD	Org	Latin Name
<b>7 Herbs</b>	tonic			+	+						Rosmarinus officinalis, Salvia officinalis, Equisetum arvense, Melissa officinalis, Chamomilla recutita, Urtica dioica, Humulus lupulus
<b>Algae</b>	moisturising	+		+	+		+				Fucus vesiculosus, Macrocystis pyrifera, Laminaria digitata
<b>Arctic Blue</b>	skin conditioning	+			+						Lupinus albus, Maris sal
<b>Crystal Water</b>	skin conditioning	+									Mentha aquatica, Maris sal
<b>Fresh 4 Active</b>	tonic	+		+						+	Mentha piperita, Vitis vinifera, Eucalyptus globulus, Panax ginseng

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## HIGHLIGHT

# POLAR LIGHTS

The polar region's aurora borealis is one of the world's most beautiful natural wonders. The lights have fascinated humans since the beginning of time.

The aurora borealis is formed by solar particles that collide with air particles in the earth's atmosphere, making them glow. The colourful veils in the star-speckled sky light up the night and vary from greens and violets to oranges and reds. Obviously, this natural phenomenon evokes a feeling of deep satisfaction that is predestined to be captured in the form of beauty products.



	Properties	A	Dist	PW	Gly	w.s.	o.s.	A/Gly/W	SD	Org	Latin Name
<b>Frost Pattern</b>	skin conditioning	+			+						Leontopodium alpinum, Gentiana lutea
<b>Glacier Water</b>	soothing	+			+						Betula alba, Illite
<b>Magic of the North</b>	skin conditioning	+			+						Epilobium angustifolium, Juniperus communis
<b>Mango-Orange</b>	masking				+						Mangifera indica, Citrus aurantium dulcis
<b>Polar Lights</b>	cleansing	+			+						Vaccinium myrtillus, Cetraria islandica, Vaccinium vitis-idaea

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## Feel nature's variety.

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