



UNLIMITED
EXTRACT
SOLUTIONS

PREMIUM EXTRACTS & BRANDED INGREDIENTS

QUALITY IS OUR PASSION

Highest quality “Made in Germany” from the best raw materials is our commitment. Anklam Extrakt GmbH stands for top expertise in the development, production and research of high-quality plant extracts.

Trained specialists, state-of-the-art technology and strict quality controls throughout the entire production process guarantee our customers, extracts of the highest quality.

Our plant extracts made from leaves, flowers, roots, berries, and other parts of plants are produced solely in accordance with the requirements of GMP and HACCP quality standards. Anklam Extrakt® is further specialised in the development of Maqui berry extracts – an innovative, branded ingredient concept supported by scientific research for the nutrition and the health industries.





PREMIUM EXTRACTS

Our extract portfolio includes both extracts in line with the HMPC and/or Ph. Eur monographs for the pharmaceutical industry, and extracts for the food industry. From A for Althaea (marshmallow) to V for Vaccinium (cranberry) - we offer you a sophisticated and innovative product portfolio with one or several extract varieties for every plant to choose from.

BRANDED INGREDIENTS

Make use of our trademarks Delphinol®, Maqui-Bright®, justmaqui™, optibright®, chocophenol® and cognitaven® for your application concerted especially for your market.

Our Branded Ingredients are characterised by an unique manufacturing process and marker content. Next to clinical data for various fields of indications, we also offer ready-to-use product concepts.

PREMIUM EXTRACTS

IVY

Hedera helix L. is a climbing evergreen plant that grows on trees, walls or on the ground. Ivy is native to Western, Central and Southern Europe. The drug for commercial use is extracted from leaves that are gathered in the wild. Its expectorant properties have been verified in different monographs.

HIBISCUS

The drug of *Hibiscus sabdariffa* L. is made up from the dark red, thick and fleshy bracts of the calyx and epicalyx. Thanks to its intensive red colour and pleasantly tart flavour, the hibiscus flower is today frequently used in the food industry.

FENNEL

Sweet Fennel (*Foeniculum vulgare* Mill. subsp. *vulgare* var. *dulce* (Mill.) Batt. & Trab) is a perennial plant and reaches heights of up to 2 m. Fennel seeds are well-known for their positive effect on the gastrointestinal tract and as cough and cold support. Furthermore, fennel has a pleasantly sweet, slightly spicy taste.

PASSIONFLOWER

Passiflora incarnata L. is a perennial climbing shrub that can grow to a height of 10 m and belongs to the Passifloraceae family. The drug is made up of the dried aboveground parts of this climbing shrub. This drug is traditionally used to improve minor symptoms of stress and to aid sleep.

ARTICHOKE

The artichoke is a thistle-like perennial plant of the daisy family (Asteraceae). It has purple flowers and a short, perennial rhizome. Artichoke leaves are traditionally used for the symptomatic relief of digestive problems such as dyspepsia, which is associated with a bloated feeling, formation of gas, and flatulence.

HORSE CHESTNUT



PRIMULA

The primula species *Primula elatior* (L.) Hill and *Primula veris* L. are perennial, herbaceous plants that are found in sunny meadows and in light shrubbery in parts of Asia and Europe. The drug is made up of rhizomes and roots from these species of primula. It is traditionally used as an expectorant for a cough associated with a cold.



CRANBERRY



MARSHMALLOW

Althaea officinalis L. belongs to the mallow family (Malvaceae). The root of marshmallow is traditionally used for the symptomatic treatment of oral and pharyngeal irritation and associated dry cough, as well as for the symptomatic relief of gastrointestinal problems.

PUMPKIN



THYME

The dwarf shrubs *Thymus vulgaris* L. and *Thymus zygis* L. are native to Europe and other regions. The drug is made up of dried whole leaves and flowers, stripped from the stems. Thyme is traditionally used as an expectorant for a cough associated with a cold.

DEVIL'S CLAW

Devil's claw is primarily found in South Africa and South West Africa. The active components are stored in the root, which is used for the extraction. The seed capsules have a characteristic appearance, having arm-like ramified outgrowths, which have anchor-like hooks. Devil's claw root preparations are well known for their positive effect on joints.

SAGE



GINSENG

Ginseng is native to the alpine forests of Central East Asia. Extracts of the root are traditionally administered for symptoms of asthenia such as fatigue and weakness. Its positive effects on the mood, well-being and mental capabilities, to name a few examples, have been verified in numerous studies.

MATE

The mate leaves come from the ever-green yerba mate tree (Aquifoliaceae family), which is found exclusively in South America. Mate tea is the national drink in many parts of South America and is now, due to its natural content of caffeine, very popular in Europe.

MAQUI

Maqui (*Aristotelia chilensis* (Molina) Stuntz) is a native berry that only grows in the wild forests of Patagonia in Chile and Argentina. It has been consumed from ancient times by indigenous people and is by nature extraordinarily rich in many nutrients and powerful flavonoid species known as anthocyanins.

GREEN OAT

Avena sativa L. is a species of plant from the *Avena* genus within the grass family (Poaceae). The name of the drug "*Avenae herba*" refers to the green aerial parts harvested before flowering. Green oat herb is traditionally used to reduce minor symptoms of stress and increase concentration.

PURPLE CONEFLOWER



Echinacea purpurea L. (Moench) originates from North America, although this perennial plant is now cultivated all over the world. It is very popular as an ornamental plant in gardens as it has pretty, striking flowers. Both the root as well as the herb in form of pressed juice are traditionally used as an aid for colds.

SEA BUCKTHORN



MELISSA



ELDER



Sambucus nigra L. belongs to the moschatel family (Adoxaceae). Elder grows in deciduous forests, by hedges, at the edges of woods and by lakesides and riverbanks. Occasionally, elder can reach a height of up to 15 m. Both elderberry and elderflower are well-known as a support against colds.

BRANDED INGREDIENTS

Delphinol®

Delphinol® is a unique extract manufactured from selected maqui berries (*Aristotelia chilensis*) providing rich purified flavonoids.

It is standardised to bear a minimum of **25 % delphinidins** and a minimum of **35 % total anthocyanins**.

Delphinol®

- supports a metabolic balance
- supports the maintenance of a normal bone metabolism
- shows antioxidant potency

Metabolic Balance:

Delphinol® significantly decreased oxidised LDL cholesterol in study participants, as compared to placebo supplementation. In addition Delphinol® naturally delays absorption of dietary carbohydrates, including refined sugars and pure glucose.

Bone Health:

Delphinol® showed significant effects on healthy bone metabolism in a preclinical study.

The intake of Delphinol® increases bone mass by activating osteoblasts and inhibiting osteoclastogenesis ultimately leading to the reconstitution of a balanced bone metabolism.

Antioxidant Potency:

Delphinol® presents exceptionally high antioxidant power (total ORAC 5.0 value of 30852 µmol TE/g, certified by Brunswick Laboratories).

In a preclinical study delphinidins present inside keratinocytes prevented UV-induced oxidative stress and cell death (apoptosis).



Delphinol® with ChromoPrecise®

A unique product concept for the maintenance of well-balanced blood sugar levels

Delphinol® with ChromoPrecise® is the world's first double-action, natural supplement solution for blood sugar management. **Delphinol®** is standardised to bear a minimum of 25 % delphinidins and a minimum of 35 % total anthocyanins. **ChromoPrecise®** is a cellular bound yeast containing 50 µg chromium. The combination of both ingredients works together to maintain well-balanced blood sugar levels.

Delphinol® with ChromoPrecise® mechanism of action

Delphinol® delays the release of dietary glucose into the bloodstream, to avoid sharp spikes of high blood glucose levels. Additional presence of ChromoPrecise® ensures better uptake of glucose by cells, by amplifying the insulin impact to channel glucose out of the bloodstream and into the cells for utilization of glucose as energy source.

EFSA Health Claim: Chromium contributes to the maintenance of normal blood glucose levels.



A superior source for potent polyphenols

justmaqui™ is a maqui berry (*Aristotelia chilensis*) concentrated juice powder, standardised to bear a minimum of **1.4 % delphinidins** and a minimum of **2.0 % total anthocyanins**. justmaqui™ can be added as a natural colourant or flavouring agent to food and beverage products such as milk shakes, smoothies, yogurts, ice creams, fruit juices, cereal bars, chocolate preparations and other food items.



Delphinol® MARKET APPLICATIONS



MaquiBright®

A superior ingredient for eye health

MaquiBright® is a unique extract manufactured from selected maqui berries (*Aristotelia chilensis*) providing rich purified flavonoids. It is standardised to bear a minimum of **25 % delphinidins** and a minimum of **35 % total anthocyanins**.



MaquiBright®

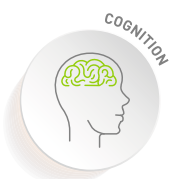
- supports eye health
- supports tear fluid production
- quenches discomforts like irritation, blurred vision, sensitivity to light and more



A natural support for cognitive performance

cognitaven® is a green oat extract used for mental well-being and cognitive performance.

Anklam Extrakt® investigated the effects of green oat extract in an *in vitro* study on two test systems namely phosphodiesterase 4 (PDE-4) and monoamine oxidase B (MAO-B). Both enzymes play a crucial role in mental well-being and cognition. In summary, our extract showed good inhibitory effects for both enzymes, which might have a positive influence on mental fitness, cognition and mood.



Sugar-free and delicious chocolate!

chocophenol® is a 70 % cocoa, sugar-free chocolate containing **Delphinol®**, and **Vitamins C and E**. Delphinol® is a maqui berry (*Aristotelia chilensis*) extract standardised to bear a minimum of 25 % delphinidins and a minimum of 35 % total anthocyanins. Delphinol® presents an exceptionally high antioxidant power. The included Vitamins contribute to the protection of cells from oxidative stress, which is recognised with corresponding EFSA Health Claims by the European Food Safety Authority. Taken together chocophenol® is a unique and delicious chocolate.

Optibright®

A unique product concept for tear fluid production

optibright® combines the efficacy of branded maqui berry extract MaquiBright® and DHA-rich omega-3 oil for a remarkable double action on tear-fluid production.

MaquiBright® is standardised to bear a minimum of 25 % delphinidins and a minimum of 35 % total anthocyanins. The extract supports aqueous tear fluid production in lachrymal glands by eliminating free radicals and reactive oxygen species, as proven in pre-clinical and clinical studies.

The **omega-3 oil** contains 50 % docosahexaenoic acid (DHA*) and 20 % eicosapentaenoic acid (EPA). The oil supports lipid layer synthesis in meibomian glands – required for evaporation protection and for stabilisation of tear film.

*EFSA Health Claim: DHA contributes to the maintenance of normal vision.



PREMIUM EXTRACTS



COMMON NAME OF HERBAL EXTRACT	BOTANICAL NAME OF USED PLANT MATERIAL	CHARACTERISTICS / ADDITIONAL INFORMATION	MAIN FIELD OF USE
Artichoke leaf powdered extract	*** <i>Cynara scolymus</i> L.	≥ 0.6 % chlorogenic acid	Gastrointestinal disorders
Artichoke leaf powdered extract	<i>Cynara scolymus</i> L.	≥ 2.0 % cynarin derivates	Gastrointestinal support
Cranberry powdered extract	<i>Vaccinium macrocarpon</i> Aiton	≥ 30.5 % total phenols standardised extract	Urinary tract support
Cranberry powdered extract	<i>Vaccinium macrocarpon</i> Aiton	≥ 10.5 % total phenols standardised extract	Urinary tract support
Cranberry powdered extract	<i>Vaccinium macrocarpon</i> Aiton	≥ 6 % proanthocyanidins (PAC) DMAC standardised extract	Urinary tract support
Devil's claw root powdered extract	<i>Harpagophytum procumbens</i> DC. and / or <i>Harpagophytum zeyheri</i> Decne	≥ 1.5 % harpagoside	Joint support
Devil's claw root powdered extract	<i>Harpagophytum procumbens</i> DC. and / or <i>Harpagophytum zeyheri</i> Decne	1.4 % - 2.8 % harpagoside	Joint support
Echinacea herb dried press juice	<i>Echinacea purpurea</i> (L.) Moench	≥ 2.4 % β-1,2-D-fructofuranosides	Cough and cold support
Echinacea root granulated extract	<i>Echinacea purpurea</i> (L.) Moench	≥ 4 % total polyphenols ≥ 0.025 % dodecatetraenoic acid isobutylamide	Cough and cold support
Elderberry powdered extract	<i>Sambucus nigra</i> L.	≥ 30.5 % total phenols standardised extract	Cough and cold support
Elderberry powder	<i>Sambucus nigra</i> L.	94 % native extract dark red colour	Cough and cold support Natural colourant and flavouring agent
Elder flower powdered extract	<i>Sambucus nigra</i> L.	good solubility in water and sweet taste	Cough and cold support Natural flavouring agent
Ginseng root powdered extract	<i>Panax ginseng</i> C. A. Meyer	≥ 10 % total ginsenosides	Support in case of fatigue and weakness
Green oat herb powdered extract	*** <i>Avena sativa</i> L.	analytical marker by Anklam Extrakt®	Mental stress and mood disorders
Hibiscus flower powdered extract	<i>Hibiscus sabdariffa</i> L.	good solubility in water pleasantly sour taste dark red colour	Natural colourant and flavouring agent (e.g. in beverages)
Horse chestnut seed powdered extract	** <i>Aesculus hippocastanum</i> L.	6.5 - 10.0 % protoaescigenin standardised extract	Venous circulation disorders
Ivy leaf powdered extract	*** <i>Hedera helix</i> L.	10 - 20 % hederacoside C	Expectorant for cough associated with cold
Marshmallow root powdered extract	*** <i>Althaea officinalis</i> L.	scopoletin	Oral or pharyngeal irritation and associated dry cough
Maté leaf powdered extract	<i>Ilex paraguariensis</i> St. Hil.	≤ 5 % caffeine	Natural source of caffeine Natural flavouring agent (e.g. in beverages)
Melissa leaf powdered extract	** <i>Melissa officinalis</i> L.	2.0 - 19.0 % rosmarinic acid	Mental stress and mood disorders Gastrointestinal disorders
Passion flower powdered extract	*** <i>Passiflora incarnata</i> L.	≥ 2.0 % flavonoids	Mental stress and mood disorders
Primula root powdered extract	*** <i>Primula veris</i> L. or <i>Primula elatior</i> (L.) Hill	0.8 - 22.0 % sum of primula acid I and II	Expectorant for cough associated with cold
Pumpkin seed powdered extract	<i>Cucurbita pepo</i> L.	≥ 0.1 % adenosine 2-4 % enterodiol	Urinary tract and prostate support
Sage leaf powdered extract	<i>Salvia officinalis</i> L.	astringent aromatic flavour	Gastrointestinal support Natural flavouring agent
Sea-Buckthorn berry powder	<i>Hippophae rhamnoides</i> L.	≤ 10 % ascorbic acid	Natural source of Vitamin C Natural colourant and flavouring agent
Sweet fennel seed powdered extract	* <i>Foeniculum vulgare</i> Mill. subsp. <i>vulgare</i> var. <i>dulce</i> (Mill.) Batt. & Trab.	78 % native extract 2 % fennel oil	Gastrointestinal support Common cold support Natural flavouring agent
Thyme herb powdered extract	*** <i>Thymus vulgaris</i> L., and/or <i>Thymus zygis</i> L.	1 - 10 % rosmarinic acid 0.6 - 2.5 % sum of thymol and carvacrol	Expectorant for cough associated with cold

* Available as finished product

** Pharmaceutical Quality - Dossier available

BRANDED INGREDIENTS



BRAND NAME	USED RAW MATERIAL	CHARACTERISTICS / ADDITIONAL INFORMATION	MAIN FIELD OF USE
Delphinol®	<i>Aristotelia chilensis</i> (Molina) Stuntz	≥ 35.0 % content of total anthocyanins ≥ 25.0 % content of total delphinidins standardised extract	Metabolic Balance Bone health Antioxidant potency
MaquiBright®	<i>Aristotelia chilensis</i> (Molina) Stuntz	≥ 35.0 % content of total anthocyanins ≥ 25.0 % content of total delphinidins standardised extract	Eye health Tear fluid production
Delphinol® with ChromoPrecise®	* <i>Aristotelia chilensis</i> (Molina) Stuntz and Chromium enriched yeast	One capsule containing: ▪ 50 mg Delphinol® : ≥ 35.0 % content of total anthocyanins ≥ 25.0 % content of total delphinidins standardised extract ▪ 200 mg ChromoPrecise® : ≥ 0.2 % of total chromium	Well-balanced blood sugar levels Energy distribution
Optibright®	* <i>Aristotelia chilensis</i> (Molina) Stuntz and DHA-enriched Omega-3 oil	One softgel containing: ▪ 30 mg MaquiBright® : ≥ 35.0 % content of total anthocyanins ≥ 25.0 % content of total delphinidins standardised extract ▪ 450 mg Omega-3 Oil	Natural tear-fluid production: lacrimal and meibomian glands function Eye health
Justmaqui™	<i>Aristotelia chilensis</i> (Molina) Stuntz	≥ 2.0 % content of total anthocyanins ≥ 1.4 % content of total delphinidins standardised powder	Natural colourant and flavouring agent
chocophenol®	* <i>Aristotelia chilensis</i> (Molina) Stuntz 70 % cocoa chocolate Vitamin C Vitamin E	One serving (25 g) containing: 20 mg Delphinol® , 75 mg Vitamin C and 8 mg Vitamin E	Sugar free chocolate with antioxidant potency
cognitaven®	<i>Avena sativa</i> L.	in vitro study on MAO-B and PDE-4 inhibition available clinical study on cognition/mental stress currently ongoing analytical marker by Anklam Extrakt®	Cognition, mental and mood support

* Available as finished product



A large, industrial stainless steel extraction vessel is the central focus of the image. The vessel is cylindrical with a large circular opening on the right side, revealing internal components including a central shaft with several horizontal mixing bars. The vessel is surrounded by a complex network of stainless steel pipes, valves, and electrical conduits. A prominent red emergency stop button is visible on a pipe near the top right. The background shows a clean, modern laboratory or industrial facility with a white wall and a grey floor. The lighting is bright and even, highlighting the metallic surfaces.

UNLIMITED EXTRACT SOLUTIONS – WE DEVELOP WHAT YOU NEED

Project-related special requirements are no obstacle for us:

- We design and plan your project, perform the technical development and the entire documentation for your extract, under strict confidentiality.
- Certainly, our laboratory is equipped with the newest technology to conduct the required method development and validation for your project.

ANKLAM EXTRAKT® – SERVICE AND COMPETENCE

We go one-step further to simplify the market access for your product. Your success is our goal.

Extracts backed by science

Clinical proven efficacy and safety are key for the marketing of a successful product. Our branded ingredients are backed by our own scientific data.

Regulatory affairs

Our competent regulatory affairs department supports you from the start of the project to the registration and further on. This applies to both pharmaceutical and food/nutritional supplement regulatory supports.

Simply contact our sales office in Nuremberg. There you will find the sales representatives and our colleagues of the customer service who will be happy to advise you:

sales@anklam-extrakt.com

We will find the right solution for your project.



NOTES



QUALITY IS OUR PASSION

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Claudia Pühn

DISCLAIMER

The information that is provided regarding our ingredients is neither applicable, nor intended to satisfy the requirements of all countries. Anklam Extrakt GmbH supplies ingredients as a raw material to companies that produce a variety of products containing our ingredients. Anklam Extrakt GmbH does not make any claims regarding the use of these finished products and each manufacturer/distributor is responsible for ensuring that the claims made for and use of its products comply with the regulatory requirement of the locations in which it is marketed. We accept no liability whatsoever for the content provided.

You can find a bibliography on our homepage:



TRADEMARK STATUS

Delphinol® is a registered trademark of Anklam Extrakt GmbH, Germany and Maqui New Life S.A., Chile. Delphinol® is manufactured and distributed by Anklam Extrakt GmbH, Germany.

MaquiBright® is a registered trademark of Maqui New Life S.A., Chile and Oryza Oil & Fat Chemical Co., Ltd., Japan. MaquiBright® is manufactured and distributed under license by Anklam Extrakt GmbH, Germany.

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cognitaven® is a registered trademark of Anklam Extrakt GmbH, Germany.

ChromoPrecise® is a registered trademark of Pharma Nord Aps, Denmark.

 **EXTRACTS
FROM GERMANY**

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