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.
BRANDED INGREDIENTS

Make use of our trademarks Delphinol®, MaquiBright®, 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

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.
PREMIUM EXTRACTS

**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.

**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**

*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.

**HORSE CHESTNUT**

*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.

**PRIMULA**

The primula species *Primular 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.

**PUMPKIN**

*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.

**PASSIONFLOWER**

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.

**MATE**

The mate leaves come from the evergreen 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.

**SAGE**

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.

**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**

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.

**MAELISA**

The mate leaves come from the evergreen 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.

**ELDER**

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.
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.

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.
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

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 stabilization of tear film.

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

Cognitaven®

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.
<table>
<thead>
<tr>
<th>COMMON NAME OF HERBAL EXTRACT</th>
<th>BOTANICAL NAME OF USED PLANT MATERIAL</th>
<th>CHARACTERISTICS / ADDITIONAL INFORMATION</th>
<th>MAIN FIELD OF USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Artichoke leaf powdered extract</td>
<td><em>/</em></td>
<td>Cynara scolymus L.</td>
<td>≥ 0.6 % chlorogenic acid</td>
</tr>
<tr>
<td>Artichoke leaf powdered extract</td>
<td></td>
<td>Cynara scolymus L.</td>
<td>≥ 2.0 % cynarin derivates</td>
</tr>
<tr>
<td>Cranberry powdered extract</td>
<td></td>
<td>Vaccinium macrocarpon Aiton</td>
<td>≥ 30.5 % total phenols standardised extract</td>
</tr>
<tr>
<td>Cranberry powdered extract</td>
<td></td>
<td>Vaccinium macrocarpon Aiton</td>
<td>≥ 10.5 % total phenols standardised extract</td>
</tr>
<tr>
<td>Cranberry powdered extract</td>
<td></td>
<td>Vaccinium macrocarpon Aiton</td>
<td>≥ 6 % proanthocyanidins (PAC) DMAC standardised extract</td>
</tr>
<tr>
<td>Devil’s claw root powdered extract</td>
<td></td>
<td>Harpagophytum procumbens DC, and / or Harpagophytum zeyheri Decne</td>
<td>≥ 1.5 % harpagoside</td>
</tr>
<tr>
<td>Devil’s claw root powdered extract</td>
<td></td>
<td>Harpagophytum procumbens DC, and / or Harpagophytum zeyheri Decne</td>
<td>1.4 % - 2.8 % harpagoside</td>
</tr>
<tr>
<td>Echinacea herb dried press juice</td>
<td></td>
<td>Echinacea purpurea (L.) Moench</td>
<td>≥ 2.4 % B-1,2-D-fructofuranosides</td>
</tr>
<tr>
<td>Echinacea root granulated extract</td>
<td></td>
<td>Echinacea purpurea (L.) Moench</td>
<td>≥ 4 % total polyphenols ≥ 0.025 % dodecatetraenoic acid isobutylamide</td>
</tr>
<tr>
<td>Elderberry powdered extract</td>
<td></td>
<td>Sambucus nigra L.</td>
<td>≥ 30.5 % total phenols standardised extract</td>
</tr>
<tr>
<td>Elderberry powder</td>
<td></td>
<td>Sambucus nigra L.</td>
<td>94 % native extract dark red colour</td>
</tr>
<tr>
<td>Elder flower powdered extract</td>
<td></td>
<td>Sambucus nigra L.</td>
<td>good solubility in water and sweet taste</td>
</tr>
<tr>
<td>Ginseng root powdered extract</td>
<td></td>
<td>Panax ginseng C. A. Meyer</td>
<td>≥ 10 % total ginsenosides</td>
</tr>
<tr>
<td>Green oat herb powdered extract</td>
<td></td>
<td>Avena sativa L.</td>
<td>analytical marker by Anklam Extrakt®</td>
</tr>
<tr>
<td>Hibiscus flower powdered extract</td>
<td></td>
<td>Hibiscus sabdariffa L.</td>
<td>good solubility in water pleasantly sour taste dark red colour</td>
</tr>
<tr>
<td>Horse chestnut seed powdered extract</td>
<td>**</td>
<td>Aesculus hippocastanum L.</td>
<td>6.5 - 10.0 % protoaescigenin standardised extract</td>
</tr>
<tr>
<td>Ivy leaf powdered extract</td>
<td><em>/</em>*</td>
<td>Hedera helix L.</td>
<td>10 - 20 % hederaeoside C</td>
</tr>
<tr>
<td>Marshmallow root powdered extract</td>
<td><em>/</em>*</td>
<td>Althaea officinalis L.</td>
<td>sopoletin</td>
</tr>
<tr>
<td>Maté leaf powdered extract</td>
<td><em>/</em>*</td>
<td>Ilex paraguariensis St. Hil.</td>
<td>2.0 - 6.0 % caffeine</td>
</tr>
<tr>
<td>Melissa leaf powdered extract</td>
<td>**</td>
<td>Melissa officinalis L.</td>
<td>2.0 - 19.0 % rosmarinic acid</td>
</tr>
<tr>
<td>Passion flower powdered extract</td>
<td><em>/</em>**</td>
<td>Passiflora incarnata L.</td>
<td>≥ 2.0 % flavonoids</td>
</tr>
<tr>
<td>Primula root powdered extract</td>
<td><em>/</em></td>
<td>Primula veris L. or Primula elatior (L.) Hill</td>
<td>0.8 - 22.0 % sum of primula acid I and II</td>
</tr>
<tr>
<td>Pumpkin seed powdered extract</td>
<td></td>
<td>Cucurbita pepo L.</td>
<td>≥ 0.1 % adenosine 2-4 % enterodiol</td>
</tr>
<tr>
<td>Sage leaf powdered extract</td>
<td></td>
<td>Salvia officinalis L.</td>
<td>astringent aromatic flavour</td>
</tr>
<tr>
<td>Sea-Buckthorn berry powder</td>
<td></td>
<td>Hippophae rhamnoides L.</td>
<td>≤ 10 % ascorbic acid</td>
</tr>
<tr>
<td>Sweet fennel seed powdered extract</td>
<td>*</td>
<td>Foeniculum vulgare Mill. subsp. vulgare var. dulce [Mill.] Batt. &amp; Trab.</td>
<td>78 % native extract 2 % fennel oil</td>
</tr>
<tr>
<td>Thyme herb powdered extract</td>
<td><em>/</em>/</td>
<td>Thymus vulgaris L. and/or Thymus zygis L.</td>
<td>1 - 10 % rosmarinic acid 0.6 - 2.5 % sum of thymol and carvacrol</td>
</tr>
</tbody>
</table>

* Available as finished product ** Pharmaceutical Quality - Dossier available
<table>
<thead>
<tr>
<th>BRAND NAME</th>
<th>USED RAW MATERIAL</th>
<th>CHARACTERISTICS / ADDITIONAL INFORMATION</th>
<th>MAIN FIELD OF USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delphinol</td>
<td>Aristotelia chilensis (Molina) Stuntz</td>
<td>≥ 35.0 % content of total anthocyanins ≥ 25.0 % content of total delphinidins standardised extract</td>
<td>Balanced metabolism Bone health Beauty from within Antioxidant potency</td>
</tr>
<tr>
<td>MaquiBright</td>
<td>Aristotelia chilensis (Molina) Stuntz</td>
<td>≥ 35.0 % content of total anthocyanins ≥ 25.0 % content of total delphinidins standardised extract</td>
<td>Dry eyes</td>
</tr>
<tr>
<td>Delphinol</td>
<td>Aristotelia chilensis (Molina) Stuntz and Chromium enriched yeast</td>
<td>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</td>
<td>Well-balanced blood sugar levels Energy distribution</td>
</tr>
<tr>
<td>Optibright*</td>
<td>Aristotelia chilensis (Molina) Stuntz and DHA-enriched Omega-3 oil</td>
<td>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</td>
<td>Natural tear-fluid production: lacrimal and meibomian glands function Eye health</td>
</tr>
<tr>
<td>JustmaquiTM</td>
<td>Aristotelia chilensis (Molina) Stuntz</td>
<td>≥ 2.0 % content of total anthocyanins ≥ 1.4 % content of total delphinidins standardised powder</td>
<td>Natural colourant and flavouring agent</td>
</tr>
<tr>
<td>Chocophenol*</td>
<td>Aristotelia chilensis (Molina) Stuntz 70 % cocoa chocolate Vitamin C Vitamin E</td>
<td>one serving (25 g) containing: 20 mg Delphinol®, 75 mg Vitamin C and 8 mg Vitamin E</td>
<td>Sugar free chocolate with antioxidant potency</td>
</tr>
<tr>
<td>Cognitaven*</td>
<td>Avena sativa L.</td>
<td>* Available as finished product</td>
<td></td>
</tr>
</tbody>
</table>

* Available as finished product
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.
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.
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.

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