



ANKLAM[®]EXTRAKT



**UNLIMITED
EXTRACT
SOLUTIONS**

BRANDED INGREDIENTS & PREMIUM EXTRACTS

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 plant parts are produced solely in accordance with the requirements of GMP and ISO 22000 quality standards. Furthermore, Anklam Extrakt® specialises in the development of maqui berry extracts – an innovative, branded ingredient concept supported by scientific research for the nutrition and health industries.





BRANDED INGREDIENTS

Make use of our trademarks Delphinol[®], MaquiBright[®], eldosamb[®] and cognitaven[®] for your application designed especially for your market. Our Branded Ingredients are characterised by a unique manufacturing process and marker content. To ensure a consistent quality over time, we perform stability studies for various climate zones. Through a well-established partnership with our suppliers and a comprehensive knowledge of the raw materials used, we are able to guarantee a constant supply capability of our Branded Ingredients. Aside from scientific data for various fields of application, we also offer ready-to-use product concepts.

Delphinol[®] **MaquiBright[®]**

eldosamb[®] **cognitaven[®]**

PREMIUM EXTRACTS

Our extract portfolio includes both extracts in line with the HMPG 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 of every plant to choose from. Our trademark AEnat[®], with the last six digits of the article number, represents the unique and distinctive name of our premium products. AEnat[®] stands for quality made in Germany.

AEnat[®]

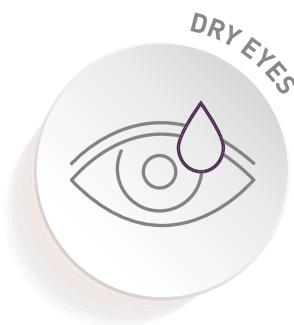
BRANDED INGREDIENTS

MaquiBright®

eldosamb®

cognitaven®

MaquiBright® is manufactured from selected fresh maqui berries under strict GMP conditions. The extract is standardised to bear a minimum of **25 % delphinidins** and a minimum of **35 % total anthocyanins**.



A superior ingredient for eye health

Vision is one of our most important senses. The eye is a very complex organ and eye health encompasses various aspects with as many factors that can influence our sight. Not only ambient dry air due to air conditioners or overheated rooms, long working hours at screens, but also lifestyle-related oxidative stress and ageing in general, can cause dry eyes.

MaquiBright® significantly enhances tear fluid production and relieves dry eye-related symptoms, tackling both objective and subjective symptoms.

MaquiBright® helps to alleviate the source of dry eyes by not only masking the symptoms but addressing the causes directly.

Unique Features

- Restoration of healthy tear fluid generation
- Relieves dry eye-related symptoms like stiff shoulders
- Comfortable and safe alternative to artificial tear drops

eldosamb® is a standardised elderberry extract. Carefully selected berries in combination with a gentle production process guarantee a minimum content of **13% anthocyanins**.

A natural ingredient for immune support

In normal conditions, the immune system protects our organism extremely effectively against invaders, especially when bearing in mind that we are surrounded by a variety of bacteria and viruses all day long. Nevertheless, it happens that we catch infections like a common cold or flu.

A pre-clinical research programme showed that eldosamb® exerts good immune-modulating properties, counteracting inflammatory immune reaction by decreasing pro-inflammatory TNF- α and IFN- γ and increasing anti-inflammatory IL-10 cytokine. Also, research has demonstrated that elderberry constituents can diminish virus infectivity to a moderate extent.

Unique Features

- Exerts substantial antiviral bioactivity
- Shows immunomodulatory effects
- Counteracts pro-inflammatory reaction during acute infections



cognitaven® is a green oat extract made from the higher aerial parts of the immature or "green" oat plant.

A natural support for cognitive performance

We live in an ever-accelerating world with a competitive business environment and rising expectations both in a professional and private context.

Cognitive performance and stress-coping behaviour are among the key factors for keeping pace with the increasing challenges of today.

cognitaven® is an extract used for mental fitness and cognitive performance. Anklam Extrakt® investigated the effects of green oat extract in a clinical study including 132 healthy adults. cognitaven® supplementation showed a significant improvement of working memory and a beneficial influence on multitasking. It also positively modulated physiological stress response.

Unique Features

- Enhancement of cognitive function from the first day of supplementation
- Significant improvement of working memory
- Beneficial influence on speed and accuracy during multitasking





Delphinol®

Delphinol® is manufactured from selected fresh maqui berries under strict GMP conditions. The extract is standardised to bear a minimum of **25 % delphinidins** and a minimum of **35 % total anthocyanins**.



Beauty from Within:

For each of us, rather obvious signs of ageing refer to the external appearance. Especially the visible parts of the skin, like face and hands, even more rapidly accumulate changes in structure and function as photo-ageing due to frequent exposure to UV irradiation accompanies chronological ageing. Typical signs of dermal ageing are dry skin, wrinkles, a decreasing elasticity, itching, spots and acne, but also redness and inflamed areas in general.

Delphinol® is an innovative ingredient for luminous skin. Clinical and pre-clinical data suggest that Delphinol® contributes to a vivid skin tone, reduction of number of red areas and supports skin firmness and elasticity. Further data on a complex product including Delphinol® showed a positive influence on depth of wrinkles. In addition, pre-clinical data suggests that Delphinol® has the ability to protect the telomeres, which play a crucial role in cell division and ageing.

Unique Features

- Natural solution for healthy-looking skin and vivid appearance by oral supplementation
- Helps to delay cellular ageing processes by protecting the telomeres
- Prevents collagen fibre degradation and thus helps to maintain skin elasticity and firmness

Balanced Metabolism:

In today's world, our diet consists of foods full of carbohydrates, including sugars and starch that can cause a steep and rapid rise in blood glucose. Even when avoiding certain sweets or eating low-carb, there are many foods (like salad dressing) that contain hidden sugars. This increasing sugar consumption is leading to unbalanced metabolism.

Clinical data shows the impressive potential of Delphinol® in regard to a healthy glucose metabolism after the consumption of dietary carbohydrates or refined sugars. In addition, Delphinol® significantly lowered glycated haemoglobin levels (HbA1c) and improved the blood lipid profile in a three-month clinical trial.

Unique Features

- Natural absorption delay of dietary carbohydrates, including refined sugars and pure glucose
- Prevention of glucose peaks due to balanced blood sugar levels
- Maintenance of blood sugar levels within normal range



Bone Health:

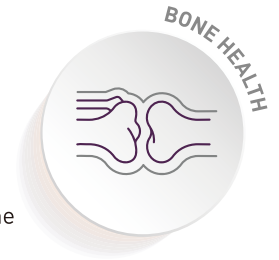
As the global demographics are changing rapidly, healthy ageing is becoming one of the major nutritional trends worldwide.

By 2050, the number of people aged 60+ will have nearly doubled. People in this age group undoubtedly want to stay mobile and fit. However, men start to lose bone density at around 40 years of age, while the bone strength of women already decreases at around the age of 30 and rapidly declines due to hormonal changes in menopause.

Delphinol® showed significant effects on healthy bone metabolism in a pre-clinical study. The intake of Delphinol® increases bone mass by activating osteoblasts and inhibiting osteoclastogenesis, ultimately leading to the reconstitution of a balanced bone metabolism.

Unique Features

- Natural solution for the maintenance of normal bone structure
- Prevents bone loss and helps to build new bone
- Various product combinations feasible



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 collected wild. Its expectorant properties have been verified in different monographs.



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.



CRANBERRY

The cranberry is an evergreen prostrate shrub that is mainly found in the USA and Canada. The ripe berries or juice concentrate can be used for the extraction. Cranberries are a popular ingredient in foods and nutritional supplements. This is based on multiple studies, which have shown that consuming these berries helps to prevent urinary tract infections.



SAGE

Salvia officinalis L. is found naturally throughout the entire Mediterranean region. The subshrub belongs to the Lamiaceae family. A particular characteristic of sage is the smell of the leaves, which are grey-green in colour. The drug is traditionally used for gastrointestinal support, for inflammations in the mouth and throat as well as against excessive sweating.



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. The herb in the form of pressed juice is traditionally used as an aid against colds.



ELDER

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



MATE

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



SEA BUCKTHORN

Sea buckthorn is an evergreen shrub or tree. The drug comes from the berry, which is harvested when fully ripe and can be dried, deep-frozen or processed while fresh. Due to its high vitamin C content, sea buckthorn preparations are taken for colds and other complaints.



BALM

Lemon balm (*Melissa officinalis*) is a perennial herb from the mint family (Lamiaceae), which is native to the Mediterranean region. The leaves of the lemon balm are traditionally used to alleviate minor symptoms of stress and make it easier to sleep. Furthermore, they have proven themselves in the symptomatic treatment of mild gastrointestinal problems that are accompanied by the formation of gas, flatulence etc.



PUMPKIN

Cucurbita pepo L. belongs to the family of cucurbits (Cucurbitaceae). Originating in Mexico and Texas, the pumpkin was introduced to Europe and is today cultivated all over the world, especially in Austria (Styria). Pumpkin seeds are traditionally used for the relief of lower urinary tract symptoms related to benign prostatic hyperplasia or related to an overactive bladder.



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 above-ground parts of this climbing shrub. This drug is traditionally used to improve minor symptoms of stress and to aid sleep.



MARSHMALLOW

Althaea officinalis L. belongs to the mallow family (Malvaceae). Marshmallow root 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.



HAWTHORN

Hawthorn is a genus of several hundred species in the rose family (Rosaceae). *Crataegus* species are shrubs or small trees and usually have thorny branches. The cut, dried, flower-bearing branches are used to prepare the extract. Traditionally, hawthorn preparations are used to alleviate symptoms of temporary nervous heart complaints (e.g. palpitations, feeling of an extra heartbeat in mild anxiety).



PREMIUM EXTRACTS

COMMON NAME OF HERBAL EXTRACT	<i>AEnat</i> [®]	BOTANICAL NAME OF USED PLANT MATERIAL	CHARACTERISTICS / ADDITIONAL INFORMATION	MAIN FIELD OF USE	REGULATORY INFORMATION
Artichoke leaf powdered extract	<i>AEnat</i> [®] 1219-04P	<i>Cynara scolymus</i> L.	≥ 0.6 % chlorogenic acid	Gastrointestinal disorders	CEP, ASMF
Artichoke leaf powdered extract	<i>AEnat</i> [®] 1219-06	<i>Cynara scolymus</i> L.	≥ 2.0 % cynarin derivates	Gastrointestinal support	
Balm leaf powdered extract	<i>AEnat</i> [®] 0703-00P <i>AEnat</i> [®] 0703-02P	<i>Melissa officinalis</i> L.	2.0 - 19.0 % rosmarinic acid	Mental stress and mood disorders Gastrointestinal disorders	CEP, ASMF
Balm leaf soft extract	<i>AEnat</i> [®] 0703-01P	<i>Melissa officinalis</i> L.	2.0 - 6.0 % rosmarinic acid	Mental stress and mood disorders Gastrointestinal disorders	
Cranberry powdered extract	<i>AEnat</i> [®] 1242-01	<i>Vaccinium macrocarpon</i> Aiton	≥ 30.5 % total phenols standardised extract	Urinary tract support	
Cranberry powdered extract	<i>AEnat</i> [®] 1242-02	<i>Vaccinium macrocarpon</i> Aiton	≥ 10.5 % total phenols standardised extract	Urinary tract support	
Cranberry powdered extract	<i>AEnat</i> [®] 1242-05	<i>Vaccinium macrocarpon</i> Aiton	≥ 68 % Proanthocyanidine (PAC) EP method ≥ 14 % Proanthocyanidine (PAC) BL-DMAC method	Urinary tract support	
Echinacea herb dried pressed juice	<i>AEnat</i> [®] 1223-04	<i>Echinacea purpurea</i> (L.) Moench	≥ 2.4 % β-1,2-D-fructofuranosides	Cough and cold support	
Elderberry powder	<i>AEnat</i> [®] 1016-54	<i>Sambucus nigra</i> L.	94 % native extract dark red colour	Immune system support Cough and cold support Natural colourant and flavouring agent	
Hawthorn leaves and flowers powdered extract	<i>AEnat</i> [®] 0356-03	<i>Crataegus monogyna</i> Jacq. (Lindm.) and/or <i>C. laevigata</i> (Poir.) DC.	≥ 2 % vitexin-2-O-rhamnoside derivates	Cardiovascular support	
Ivy leaf powdered extract	<i>AEnat</i> [®] 0541-01P <i>AEnat</i> [®] 0541-06P	<i>Hedera helix</i> L.	10 - 20 % hederacoside C	Expectorant for cough associated with cold	ASMF, KDMF
Ivy leaf powdered extract (organic)	<i>AEnat</i> [®] 0541-09	<i>Hedera helix</i> L.	10 - 20 % hederacoside C organic	Cough and cold support	
Marshmallow root powdered extract	<i>AEnat</i> [®] 0072-02 <i>AEnat</i> [®] 0072-03	<i>Althaea officinalis</i> L.	scopoletin (for <i>AEnat</i> [®] 0072-02)	Cough and cold support	
Marshmallow root powdered extract (organic)	<i>AEnat</i> [®] 0072-04	<i>Althaea officinalis</i> L.	organic	Cough and cold support	
Maté leaf powdered extract	<i>AEnat</i> [®] 0581-00	<i>Ilex paraguariensis</i> St. Hil.	2.0 - 6.0 % caffeine	Natural source of caffeine Natural flavouring agent (e.g. in beverages)	
Passion flower powdered extract	<i>AEnat</i> [®] 0801-05P <i>AEnat</i> [®] 0801-06P	<i>Passiflora incarnata</i> L.	≥ 1.5 % total flavonoids	Mental stress and mood disorders	ASMF
Pumpkin seed powdered extract	<i>AEnat</i> [®] 0365-04	<i>Cucurbita pepo</i> L.	2 - 4 % enterodiol	Urinary tract and prostate support	Part 3.2.S available in several countries
Sage leaf powdered extract	<i>AEnat</i> [®] 1011-00	<i>Salvia officinalis</i> L.	astringent aromatic flavour	Gastrointestinal support Support in case of excessive sweating	
Sea buckthorn berry powder	<i>AEnat</i> [®] 0564-00	<i>Hippophae rhamnoides</i> L.	≤ 10 % ascorbic acid	Source of vitamin C Natural colourant and flavouring agent	
Sea buckthorn berry powder	<i>AEnat</i> [®] 0564-01	<i>Hippophae rhamnoides</i> L.	≥ 4 % ascorbic acid	Source of vitamin C Natural colourant and flavouring agent	

BLENDS

BLEND NAME	<i>AEnat</i> [®]	COMPOSITION	CHARACTERISTICS / ADDITIONAL INFORMATION	MAIN FIELD OF USE
Immune Booster	<i>AEnat</i> [®] 1254-00	The blend is produced from Elderberry powdered juice (37.5 %), Echinacea dried pressed juice (25.0 %), Sea buckthorn powdered juice (25.0 %) and Balm leaves powdered extract (12.5 %)	ascorbic acid content is reported	Immune system support

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	Balanced metabolism Bone health Beauty from within
<p>SELECTION OF U.S. STRUCTURE/FUNCTION CLAIMS:</p> <ul style="list-style-type: none"> ▪ In clinical studies, Delphinol® showed amelioration in skin condition and skin profile.* ▪ Provides antioxidants that help protect cells against the oxidative damage caused by free radicals.* ▪ Helps metabolize carbohydrates and sugar in the body.* ▪ Support the body's use of sugar and helps reduce cravings.* ▪ Provides support for healthy glucose metabolism.* 			
MaquiBright®	<i>Aristotelia chilensis</i> (Molina) Stuntz	≥ 35.0 % content of total anthocyanins ≥ 25.0 % content of total delphinidins standardised extract	Dry eyes
<p>SELECTION OF U.S. STRUCTURE/FUNCTION CLAIMS:</p> <ul style="list-style-type: none"> ▪ MaquiBright® naturally and safely supports eye health with its high antioxidant and anthocyanin content.* ▪ Helps to nourish the eyes and naturally restores the normal production of tears.* ▪ Potent antioxidant that helps to support the eyes' response to oxidative stress.* 			
cognitaven®	<i>Avena sativa</i> L.	analytical marker by Anklam Extrakt®	Cognitive performance
<p>NATURAL HEALTH PRODUCT REGISTRATION CANADA (Natural Product Number: 80114177)</p> <ul style="list-style-type: none"> ▪ Dosage form: capsule ▪ Recommended use or purpose: <ul style="list-style-type: none"> - Helps to support cognitive health and brain function. - Helps to support cognitive health and/or brain function. <p>SELECTION OF U.S. STRUCTURE/FUNCTION CLAIMS:</p> <ul style="list-style-type: none"> ▪ Helps to support cognitive health and/or brain function.* ▪ Helps to support working memory.* ▪ Helps support mental performance in cognitively demanding environments such as test-taking.* 			
eldosamb®	<i>Sambucus nigra</i> L.	≥ 13 % content of total anthocyanins	Immune power
<p>* These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.</p>			
BRAND NAME	USED RAW MATERIAL	CHARACTERISTICS / ADDITIONAL INFORMATION	MAIN FIELD OF USE
justmaqui®	<i>Aristotelia chilensis</i> (Molina) Stuntz	≥ 2.0 % content of total anthocyanins ≥ 1.4 % content of total delphinidins standardised powder	Food ingredient Natural colourant and flavouring agent



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 a wooden handle, various pipes, and a red electrical control box. The vessel is mounted on a metal base. The background shows a clean, modern laboratory or industrial facility with white walls, a grey floor, and overhead lighting fixtures. The overall scene is brightly lit, emphasizing the metallic surfaces and the complex machinery.

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.
- Our laboratory is equipped with the latest 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

Clinically 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 beyond. This applies to both pharmaceutical and food/nutritional supplement regulatory support.

Simply contact our sales office in Nuremberg. There, you will find our sales representatives and customer service colleagues, 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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Court of registration:
 Neubrandenburg
 Registry number: HRB 17217

Sales tax identification
 number according to
 § 27a UStG: DE254700277

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.

TRADEMARK AND LICENCE 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 licence by Anklam Extrakt GmbH, Germany. cognitaven®, justmaqui®, eldosamb® and AEnat® are registered trademarks of Anklam Extrakt GmbH, Germany.

You can find a bibliography on our website:



EXTRACTS
 FROM GERMANY

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