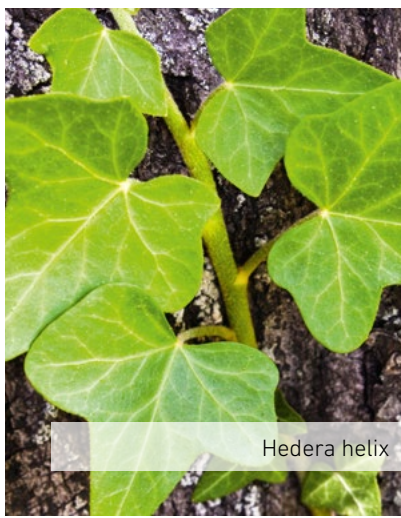




Sambucus nigra



Hedera helix

UNLIMITED EXTRACT SOLUTIONS



Passiflora incarnata



Aesculus hippocastanum



Hibiscus sabdariffa



Melissa officinalis



Salvia officinalis



Vaccinium macrocarpon

The diagram illustrates the interconnected stages of a pharmaceutical manufacturing process using interlocking gears. The stages are:

- Raw Material
- Product Development
- Botanical Extracts
- Analytical Services
- Stability Study
- Regulatory Affairs Service
- Finished Forms

**Additional extract qualities
are available upon request.**

Premium Extracts

Common name of herbal extract	Botanical name of used plant material	Characteristics	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 derivatives	Gastrointestinal disorders
Cranberry powdered extract	<i>Vaccinium macrocarpon</i> Aiton	≥ 30.5 % total phenols standardised extract	Urinary tract and gynaecology disorders
Cranberry powdered extract	<i>Vaccinium macrocarpon</i> Aiton	≥ 10.5 % total phenols standardised extract	Urinary tract and gynaecology disorders
Cranberry powdered extract	<i>Vaccinium macrocarpon</i> Aiton	≥ 6 % proanthocyanidins (PAC) DMAC standardised extract	Urinary tract and gynaecology disorders
Devil's claw root powdered extract	* <i>Harpagophytum procumbens</i> DC. and / or <i>Harpagophytum zeyheri</i> Decne	≥ 1.5 % harpagoside	Pain and inflammation
Devil's claw root powdered extract	<i>Harpagophytum procumbens</i> DC. and / or <i>Harpagophytum zeyheri</i> Decne	1.4 % - 2.8 % harpagoside	Pain and inflammation
Elderberry powdered extract	<i>Sambucus nigra</i> L.	≥ 30.5 % total phenols standardised extract	Cough and cold
Elderberry powder	<i>Sambucus nigra</i> L.	94 % native extract dark red colour	Food
Elder flower powdered extract	<i>Sambucus nigra</i> L.	good solubility in water and sweet intense taste	Cough and cold
Ginseng root powdered extract	<i>Panax ginseng</i> C. A. Meyer	≥ 10 % total ginsenosides	Fatigue and weakness
Green oat herb powdered extract	* <i>Avena sativa</i> L.	<i>in vitro</i> study on MAO-B and PDE-4 inhibition available	Mental stress and mood disorders
Hibiscus flower powdered extract	<i>Hibiscus sabdariffa</i> L.	good solubility in water pleasantly sour taste dark red colour	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	Cough and cold
Marshmallow root powdered extract	* <i>Althaea officinalis</i> L.	scopoletin	Cough and cold
Maté leaf powdered extract	<i>Ilex paraguariensis</i> St. Hil.	≤ 5 % caffeine	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> Hill	0.8 - 22.0 % sum of primula acid I and II	Cough and cold
Pumpkin seed powdered extract	<i>Cucurbita pepo</i> L.	≥ 0.1 % adenosine 2-4 % enterodiol	Urinary tract and prostate disorders
Purple coneflower root powdered extract	<i>Echinacea purpurea</i> L. Moench	≥ 4 % total polyphenols ≥ 0.025 % dodecatetraenoic acid isobutylamide	Cough and cold
Purple coneflower herb dried press juice	<i>Echinacea purpurea</i> L. Moench	≥ 2.4 % β-1,2-D-fructofuranosides	Cough and cold
Sage leaf powdered extract	<i>Salvia officinalis</i> L.	astringent aromatic flavour	Sweets
Sea-Buckthorn berry powdered extract	<i>Hippophae rhamnoides</i> L.	≤ 10 % ascorbic acid	Food
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	Food
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	Cough and cold

* Pharmaceutical Quality - Dossier available

Premium Extracts – for your project

Our extract portfolio includes both extracts in line with the HMPC and/or Ph. Eur Monograph 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 – our special extracts

Make use of our registered trademarks Delphinol®, MaquiBright® and justmaqui™ for your application concerted especially for your market.

The manufacturing process developed by our own specialists as well as a sustainable availability of Patagonia's maqui berries makes our Branded Ingredients so unique. Next to clinical data for various fields of indications, we also offer ready-to-use product concepts.

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.
- ✔ Our competent regulatory affairs department supports you from the start of the project to the registration and further on.

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.



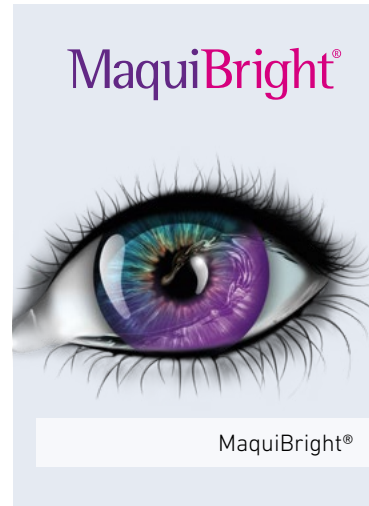
AnklaM production site



Vacuum belt dryer



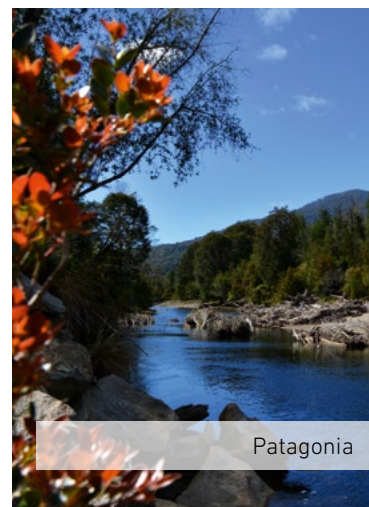
Aristotelia chilensis



MaquiBright®



Delphinol®



Patagonia



Documentation



Pilot plant



Foeniculum vulgare var. dulce



Ilex paraguariensis



Thymus vulgaris/zygis



Althaea officinalis



Cynara scolymus



Primula veris/elatior



Harpagophytum procumbens/ zeyheri



Avena sativa

EXTRACTS FROM GERMANY

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