Chinese Angelica
Herbasol® Extract IPM
Article No. 400001.02.2

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I INCI Name

Isopropyl Myristate, Angelica Polymorpha Sinensis Root Extract

N.B. For full INCI listing please see proprietary product declaration

II Preparation of Herbasol® extracts:

The extraction process consists of a special pre-treatment dependent on the plant to be extracted, followed by a cold extraction process with electronically controlled alternating macerations and percolations during 24-48 hours. In the majority of cases the equivalent of 100 kg of fresh plant material is used to produce 100 kgs of Herbasol extract.

III General information from literature

![Image of Angelica Polymorpha Sinensis](image)

- **Botanical Family:** Umbelliferae/Apiaceae
- **Common names:**
  - Latin: Angelica sinensis
  - English: Chinese Angelica
  - French: Angélique chinoise
  - German: Angeliker chinesisch
  - Chinese: Dong Quai, Dang Gui

**History**\(^1,^2\): *Angelica polymorpha var. sinensis* (dang gui/ dong quai) has been used for several thousand years in Traditional Chinese Medicine and is one of the most important great Chinese tonic herbs, second only to ginseng.

**Scientific classification**\(^1,^4,^6,^9,^10\)

**Habitat:** Native to China and Japan, where it is now cultivated.

**Description:** Fragrant biennial or perennial herb which grows to around 1-2m in height. It has hollow, rigid stems & produces large brown rhizomes and small, white flowers which are borne on umbels.
IV Main components\(^{4,6,10,11,12,16}\)

The following substances are listed in the literature as actives of the plant:

a. **Volatile oil:** 0.3-0.7% comprising at least 29 compounds lingustilide, carvacrol, safrol, isosafrol, alcohols, sesquiterpenes, cadinen, n-dodecanol, n-tetradecanol,

b. **Miscellaneous:** sucrose (40%), ferulic acid, nicotinic acid, 17 amino acids, choline, 23 minerals including calcium, magnesium, zinc, selenium, vitamins B12, A, & E, phospholipids

V Cosmetic applications

The following cosmetic related activities of the plant are extracted from the literature:

<table>
<thead>
<tr>
<th>Properties</th>
<th>Suggested cosmetic applications*</th>
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<tbody>
<tr>
<td>• Circulatory stimulant(^{1,2,4,6,13}), vasodilator(^6), Anti-inflammatory(^{2,4,6,11})</td>
<td>• Skin care, especially anti-ageing products and products for blemished &amp; problem skin</td>
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<tr>
<td>• Tonic(^{2,3,4,11})</td>
<td>• Hair care products especially “anti-ageing” hair products</td>
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<tr>
<td>• Sedative(^{3,9}), anti-spasmodic(^{4,13}), relaxes smooth muscle(^{14}), analgesic(^{3,6,8,9,15})</td>
<td>• Bath &amp; shower products</td>
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<tr>
<td>• Used to treat rheumatism(^{3,13}), arthritis(^{11,13}), ulcers(^3), abscesses &amp; boils(^{4,15})</td>
<td>• Massage &amp; spa products</td>
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<tr>
<td>• Skin brightener/lightener, evens skin tone(^6,17)</td>
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<tr>
<td>• Antibacterial(^6), antifungal(^9)</td>
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<tr>
<td>• Promotes healthy hair growth, reduces grey hair &amp; hair loss(^6), promotes blood circulation to scalp/hair follicles(^6)</td>
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<tr>
<td>• Anti-ageing(^6)</td>
<td></td>
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<tr>
<td>• Rich in minerals &amp; nutrients(^6)</td>
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<tr>
<td>• Improves muscle tone(^9)</td>
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</tbody>
</table>

* Disclaimer: These suggestions are given in good faith but it is recommended that all appropriate tests are carried out by our customers in their formulations.

Recommended level of use: 2 - 10 %.

Use in hair and skin care products.

**Medicinal and other uses\(^{2,3,4,6,9,11,12,13,14,15}\):** Called the “female ginseng”, it is widely used in Traditional Chinese Medicine for all gynaecological problems including regulation of the menstrual cycle and relief from symptoms of the menopause. It is used as a blood tonic for anaemia, as circulatory stimulant and to boost the immune system.
References

15. Dong Quai: http://www.uic.edu/pharmacy/research/diet/content/scont_womens_health_dongquai.htm
 VI  Storage and safety

Storage:

We recommend storing this Herbasol® Extract at 4 - 25 °C, protected from direct sunlight.

Maximum recommended storage time:
According to the certificate of analysis (between 6 and 12 month) when kept in original sealed cans or drums.

Once the container is opened, the product has to be handled with care to avoid microbiological contamination.

Safety for Use:

We affirm to the best of our knowledge and belief the compatibility and non-toxicity of this product. It is safe for use at normal levels in skin and hair cosmetics. Nevertheless, this statement does not release the producer of the finished cosmetic product from the responsibility of conducting any compatibility tests required by local legislation.

Options:

On request, most of our Plant Extracts are available in the following variations:

- Herbasol® Extract PG (aqueous-glycolic) - water soluble
- Herbasol® Extract IPM (isopropyl myristate) - oil soluble
- Herbasol® IPA (isopropylalcohol)
- Herbasol® Distillate
- Herbasol® Fruit & Herbal Vinegars
- Herbamilk™ o/w emulsions
- Special
- Herbasec® Dry Powders