

ROYASIL

Plant part: Leaf

Plant name: Basil

Scientific name: *Ocimum basilicum*

INCI name: Ocimum Basilicum Leaf Extract

IECIC 2015 name: OCIMUM BASILICUM (BASIL) LEAF EXTRACT



Plant Story

- *Ocimum Basilicum* is a member of the large and diverse mint family. It is a fragrant aromatic annual or biennial, which flowers in late summer (August – September).
- It typically grows to roughly 50 cm tall with clustered white/lilac flowers and abundant green leaves.
- Thought to be native to India, basil grows in the tropics, as well as in the subtropics in warm temperate area.
- In Europe, Basil is a popular culinary ingredient due to its distinctive aroma and flavour. The dried leaves are thought to be less aromatic.



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Harvesting Royasil

- Basil can be harvested after 70 - 110 days from germination/ within the growing period.
- The harvest should take place prior to flowering with cutting possible every 60 days, up to three times after first cut.

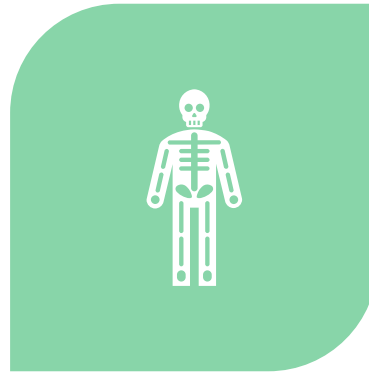
Basil Uses

- Commonly used in cooking for flavouring and the leaves can even be used to create a tea.
- Used to alleviate issues with the digestive system/ nervous system, such as, indigestion.
- In essential oil form, it is thought to act as an insect repellent.
- In our experiments, Basil showed good effects for skin brightening and anti-wrinkle efficacies. In addition to this, it showed strong antioxidant activity.
- Other literature has confirmed these effects and shown Basil has been used to treat atopic dermatitis and other skin conditions.

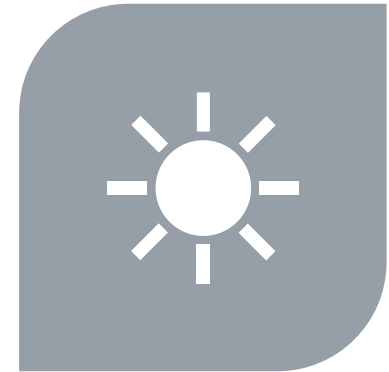
Key Functions



ANTIOXIDANT



ANTI-WRINKLE



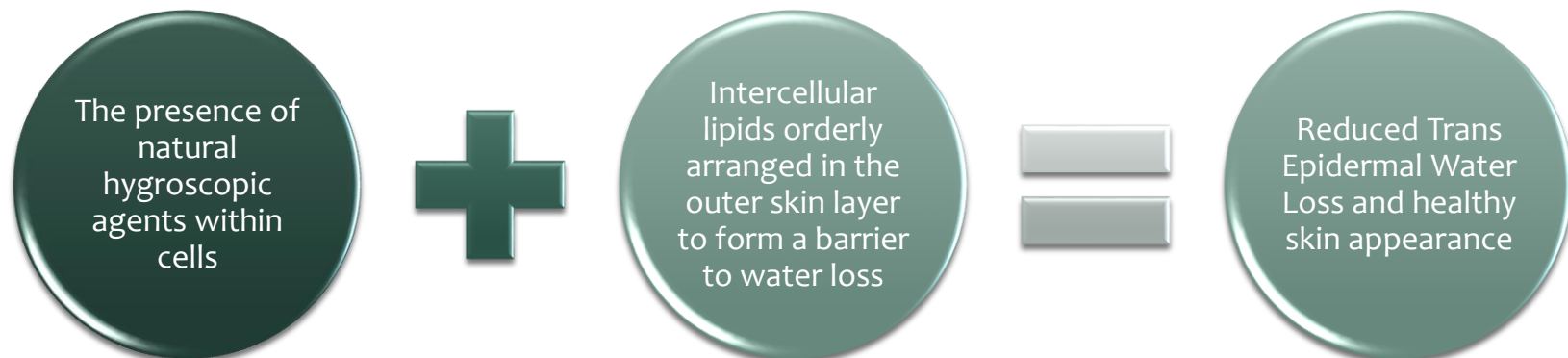
SKIN BRIGHTENING

Skin Structure

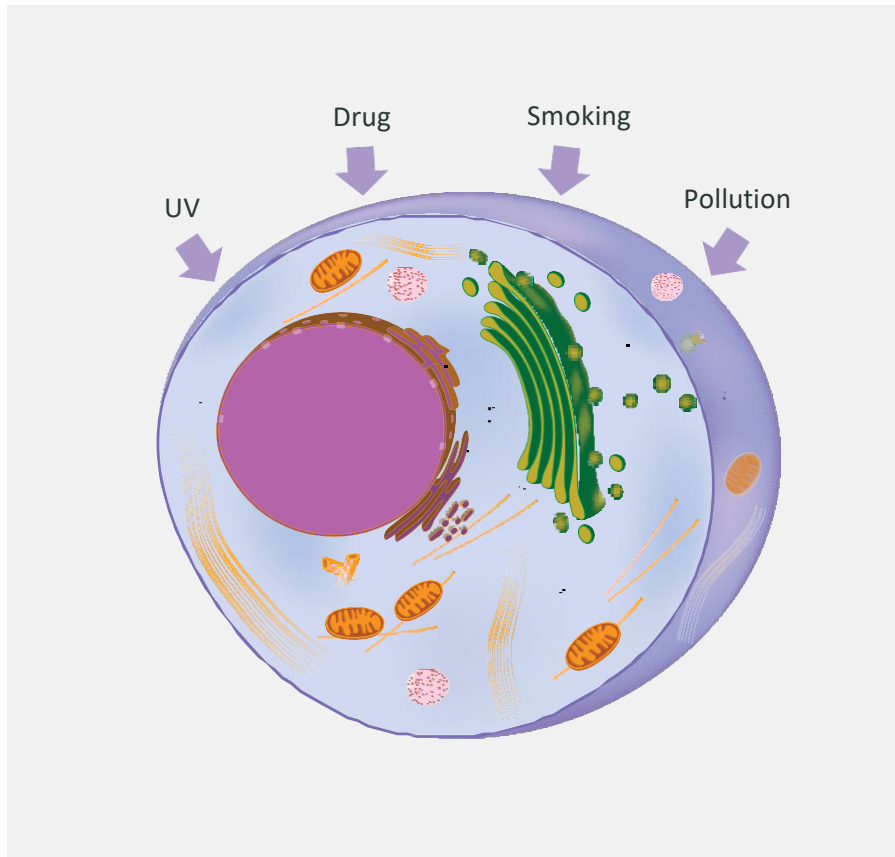
Four Layers

- Stratum corneum
- Stratum lucidum
- Stratum granulosum
- Stratum spinosum

➤ Retention of water in the skin



Antioxidants

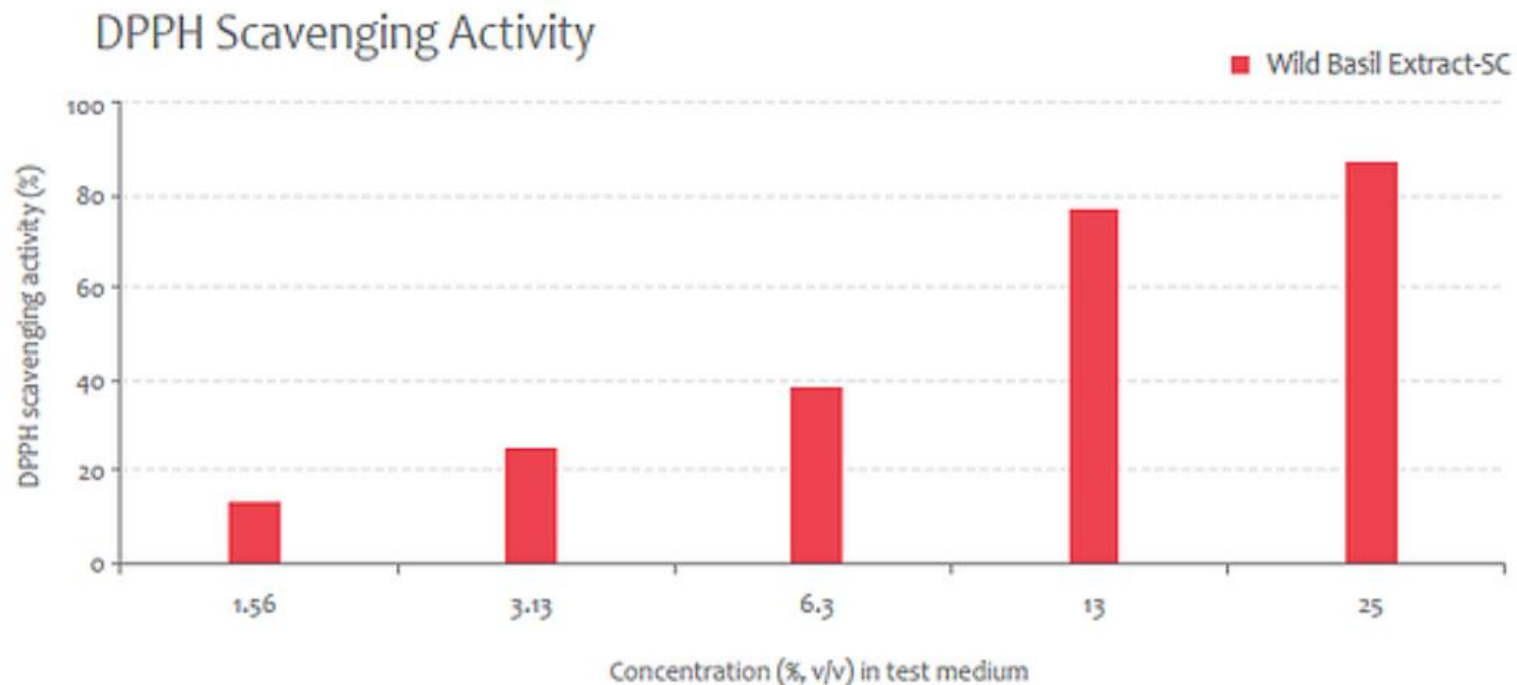


Our skin is under attack from many factors in daily life, such as UV, pollution and smoking. These factors increase the Reactive Oxygen Species (ROS).



Antioxidants from Royasil can inhibit the generation of ROS and in turn inhibit cellular damage.

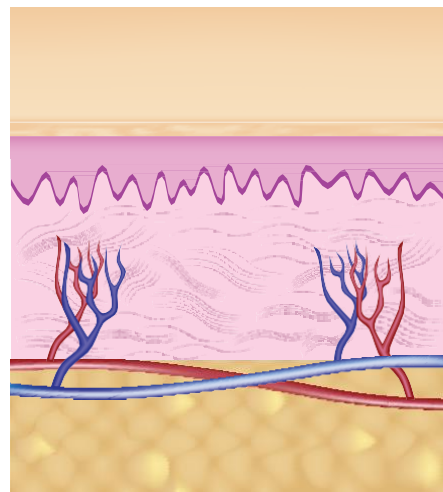
In vitro Efficacy Effects: Antioxidant



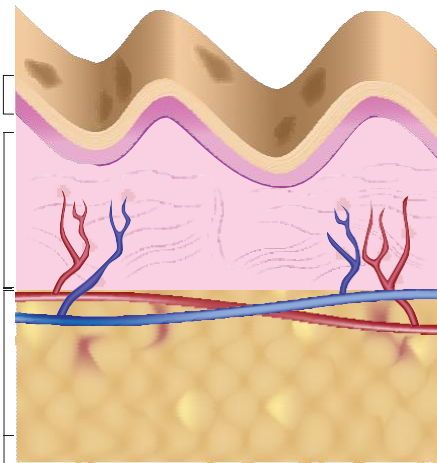
This test confirms Royasil's potential as an antioxidant with almost linear growth in DPPH scavenging activity between extract concentrations of 1.56% and 13%. There is double the activity between 6.3% and 13% and close to 90% scavenging activity at 25% concentration.

Skin Ageing and Wrinkle Formation

Younger Skin



Older Skin



Epidermis

Dermis with collagen fibers

Hypodermis - Subcutaneous fat

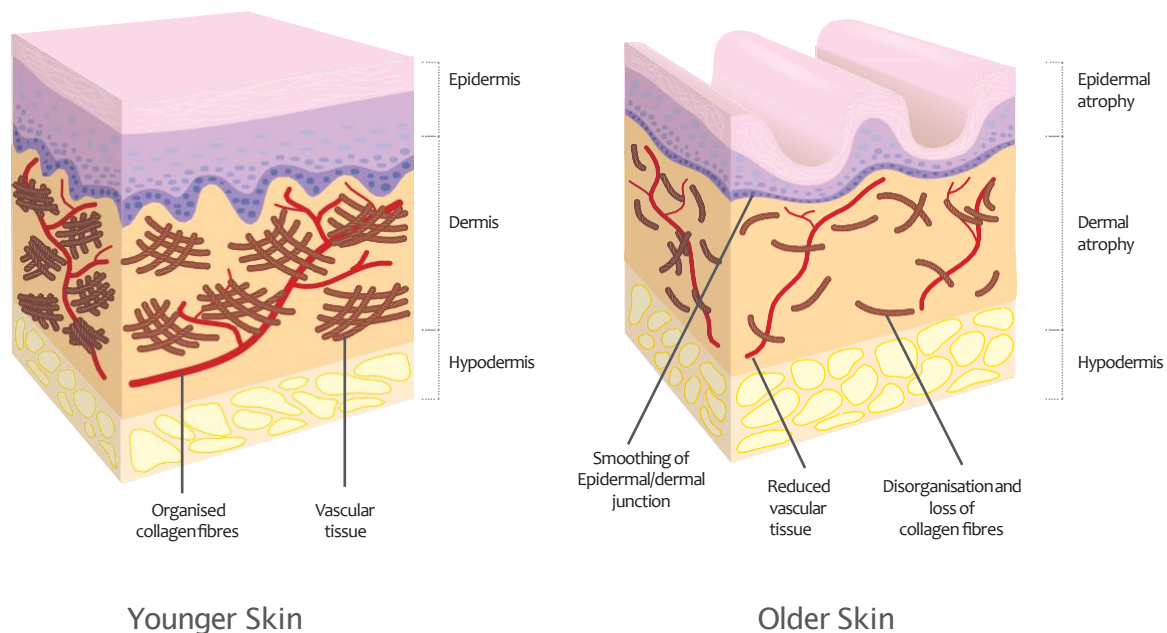
❖ Skin ageing is noted by

- a decrease of elasticity
- formation of wrinkles and fine lines
- degradation of collagen
- thinner and weaker skin
- damaged connective tissues

Skin changes with increasing age due to both intrinsic and extrinsic factors. Intrinsic skin aging is determined by genetic factors, hormonal status and metabolic reactions such as oxidative stress. One of the most important extrinsic skin aging factors is induced by UV radiation by sun exposure, referred to as photoaging. Smoking cigarettes and environmental pollution are also essential factors in premature skin aging and wrinkle formation.



Anti-wrinkle Mechanism

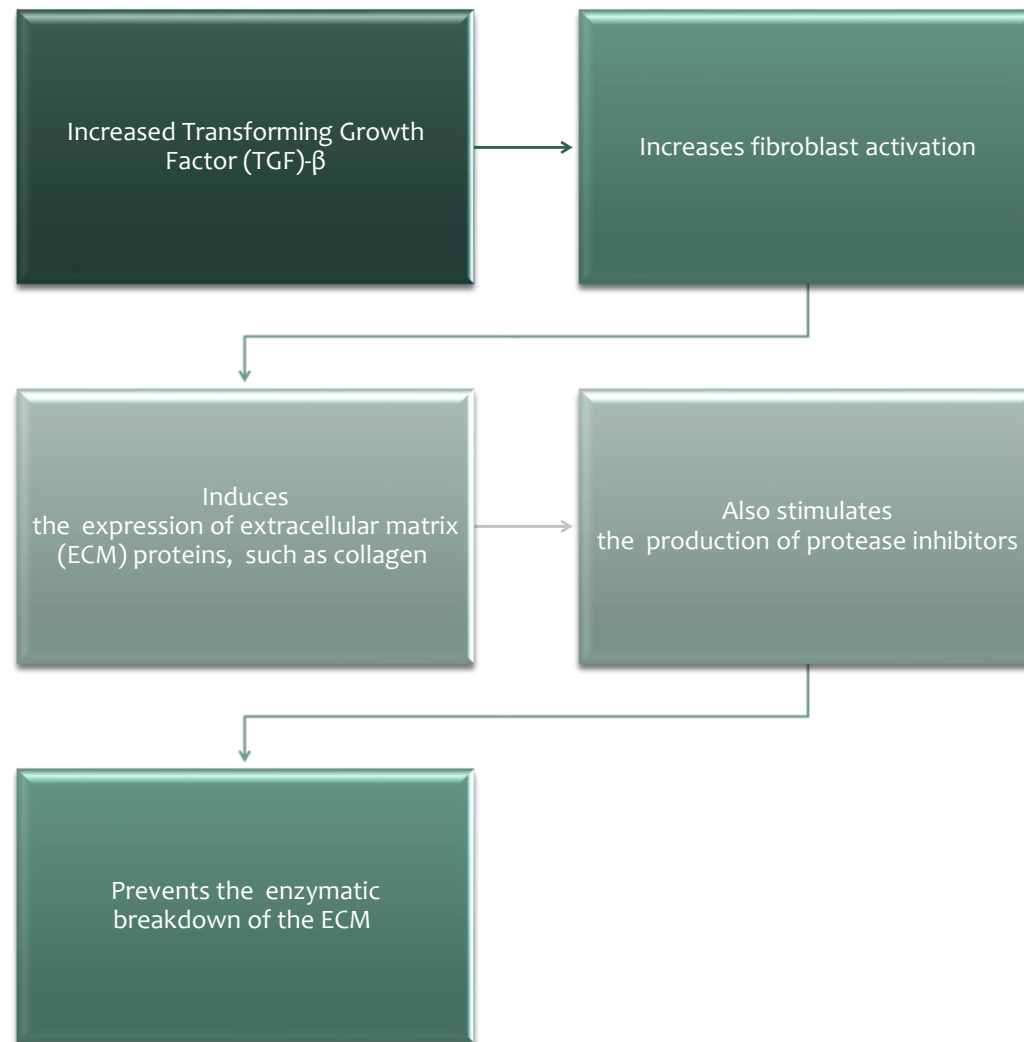


- Stimulation of collagen synthesis
- Inhibition of collagen degradation
- Inhibition of elastin degradation
- Stimulation of fibroblast proliferation

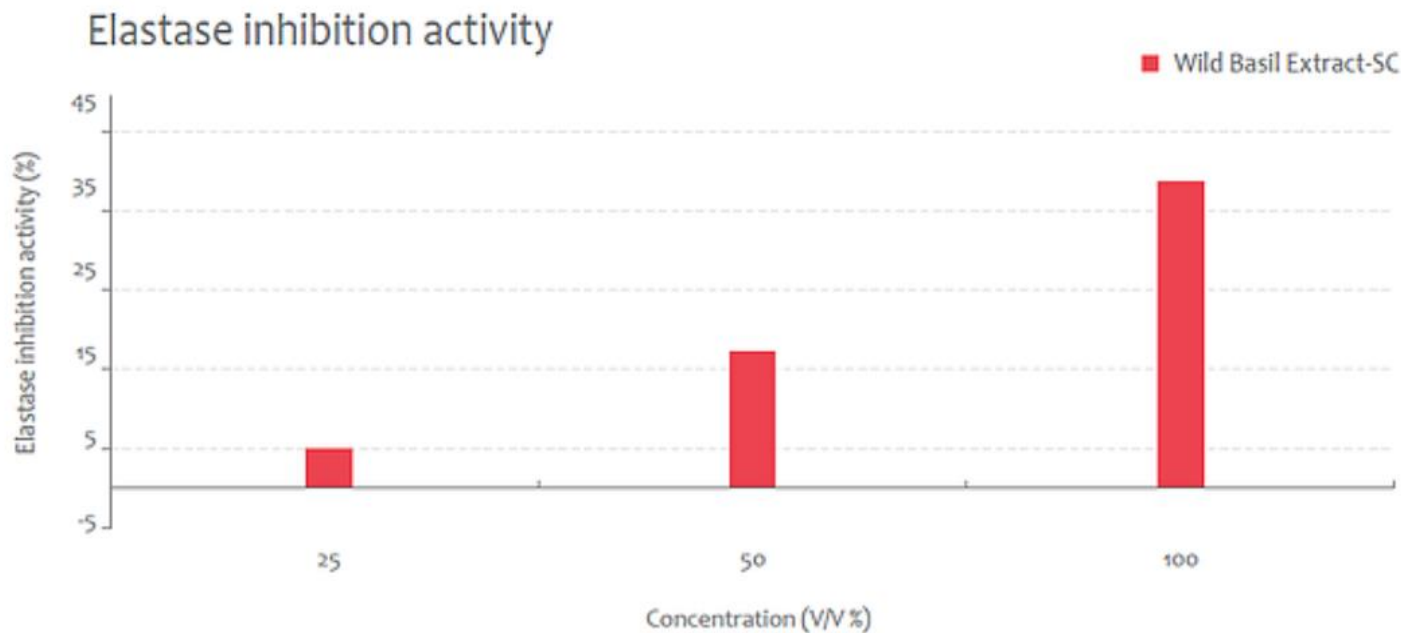


- Preventing wrinkle formation
- Increasing skin elasticity
- Wrinkle improvement

Mechanism of Collagen Synthesis



In vitro Efficacy Effects: Anti-wrinkle



Elastase inhibition is a measure showing the anti-aging/ anti-wrinkle properties of Royasil and with the increase of Royasil extract concentration, an increase in elastase inhibition can be seen. There is also a linear increase in inhibition from 25% to 100% extract concentration.

Ocimum Basilicum (Basil) Flower/Leaf Extract

- **INCI Name:** Ocimum Basilicum (Basil) Flower/Leaf Extract
- **INCI Monograph ID:** 8899
- **VCRP Reported Name:** Ocimum Basilicum (Basil) Flower/Leaf Extract
- **CAS No:** 84775-71-3 (generic)
- **EINECS (I) / ELINCS (L):** 283-900-8 (I)
- **Definition:** Ocimum Basilicum (Basil) Flower/Leaf Extract is the extract of the flowers and leaves of *Ocimum basilicum*.
- **SAFETY/REGULATORY INFORMATION**
- **Information Source(s):** [21CFR182.20](#), [21CFR582.20](#), [ECHA-R](#), RIFM, UNII: 7SAB275FP2
- **Chemical Class(es):** [Botanical Products and Botanical Derivatives](#)
- **Reported Functions:** [Fragrance Ingredients](#); [Skin-Conditioning Agents - Miscellaneous](#)
- **Reported Product Categories:** [Bath Soaps and Detergents](#); [Cleansing Products \(Cold Creams, Cleansing Lotions, Liquids and Pads\)](#); [Face and Neck Preparations \(Excluding Shaving Preparations\)](#); [Foot Powders and Sprays](#); [Hair Color Sprays \(Aerosol\)](#); [Hair Conditioners](#); [Hair Sprays \(Aerosol Fixatives\)](#); [Moisturizing Preparations](#); [Personal Cleanliness Products, Misc.](#); [Shampoos \(Non-coloring\)](#); [Skin Care Preparations, Misc.](#); [Skin Fresheners](#)
- **Ingredient Source(s):** Plant
- **Technical Name(s):**
 - Basil Extract
 - Basil oleoresin (Ocimum basilicum L.) (RIFM)
 - Common Basil Extract
 - Ocimum Basilicum (Basil) Extract
 - Ocimum basilicum Extract
 - Sweet Basil Extract
- **Trade Name Mixture(s):** [Click here to view full list of Trade Name Mixtures](#)


VCRP Frequency of Use as of 02/2018 :
46

Reported Functions

Source: Personal Care Products Council

Product Information

- **Product Name :** Royasil
- **INCI name :** Ocimum Basilicum Leaf Extract (China Compliant)
- **Dosage :** 1 – 3%
- **Formulation :** Add to the formulation
 - when the temperature is lower than 55°C.
 - Recommended to add after the cooling process.
- **Storage :** Avoid direct light or UV.
 - Keep it in a cool and dry area.



The Secrets of Caledonia

The Secrets of Caledonia (TSOC) is a supplier of natural cosmetic ingredients inspired by Scottish traditional herbal medicine. Taking advantage of Scotland's biodiversity and working in collaboration with established Scottish herbalists, we aim to provide the most effective and innovative natural ingredients at the highest quality.



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