



Broom Bloom

Product Name: Broom Bloom

INCI name: Sarothamnus Scoparius Extract

Plant Name: Scotch broom

Scientific name: *Sarothamnus Scoparius*

Broom Bloom

Scotland has wild natural scenery and numerous castles, lakes, mountains and remote islands, with a pure, unspoiled nature.
Our broom is originated from the western Europe.

Scotch broom

Broom Bloom

Scotch broom (*Sarothamnus Scoparius*) lacks the spines and has short, flattened leaves and larger flowers. This member of the pea family is common on heaths, in open woodlands and along hedgerows, and can also be found at the coast. Its bright yellow flowers appear in spring, and smell of vanilla.

Broom has been known as a good medicinal plants in western Europe, and its English name ‘Scotch Broom’ comes from the fact that it is used to make the actual broom.



Reference: Wildlife watch. (2021.03.29). URL: <https://www.wildlifewatch.org.uk/wildlife-explorer/trees-and-shrubs/broom>

Uses of ancient Scotch broom

Broom Bloom

For Medicine

Scotch broom contains Oxysparteine formed by the action of acid on Sparteine. It is used for heart problems including fluid retention (edema), poor circulation, low blood pressure, fast heartbeat, and irregular heartbeat.

Other Uses

Scotch broom is applied to the skin for sore muscles, pockets of infection (abscesses), and swelling. The plant is also strongly diuretic, stimulating urine production and thus countering fluid retention. Since broom causes the muscles of the uterus to contract, it has been used to prevent blood loss after childbirth.



References:

- Web MD. (2021.03.29). URL: <https://www.webmd.com/vitamins/ai/ingredientmono-375/scotch-broom>
- WIKIPEDIA. (2021.03.29). URL: https://en.wikipedia.org/wiki/Cytisus_scoparius

Multi-efficacy Product

Broom Bloom

Broom has active compounds of phytochemicals such as flavonoids, carotenoids, alkaloids and proved its anti-oxidant efficacy.

1

ANTI-OXIDATION

ANTI-INFLAMMATION

2

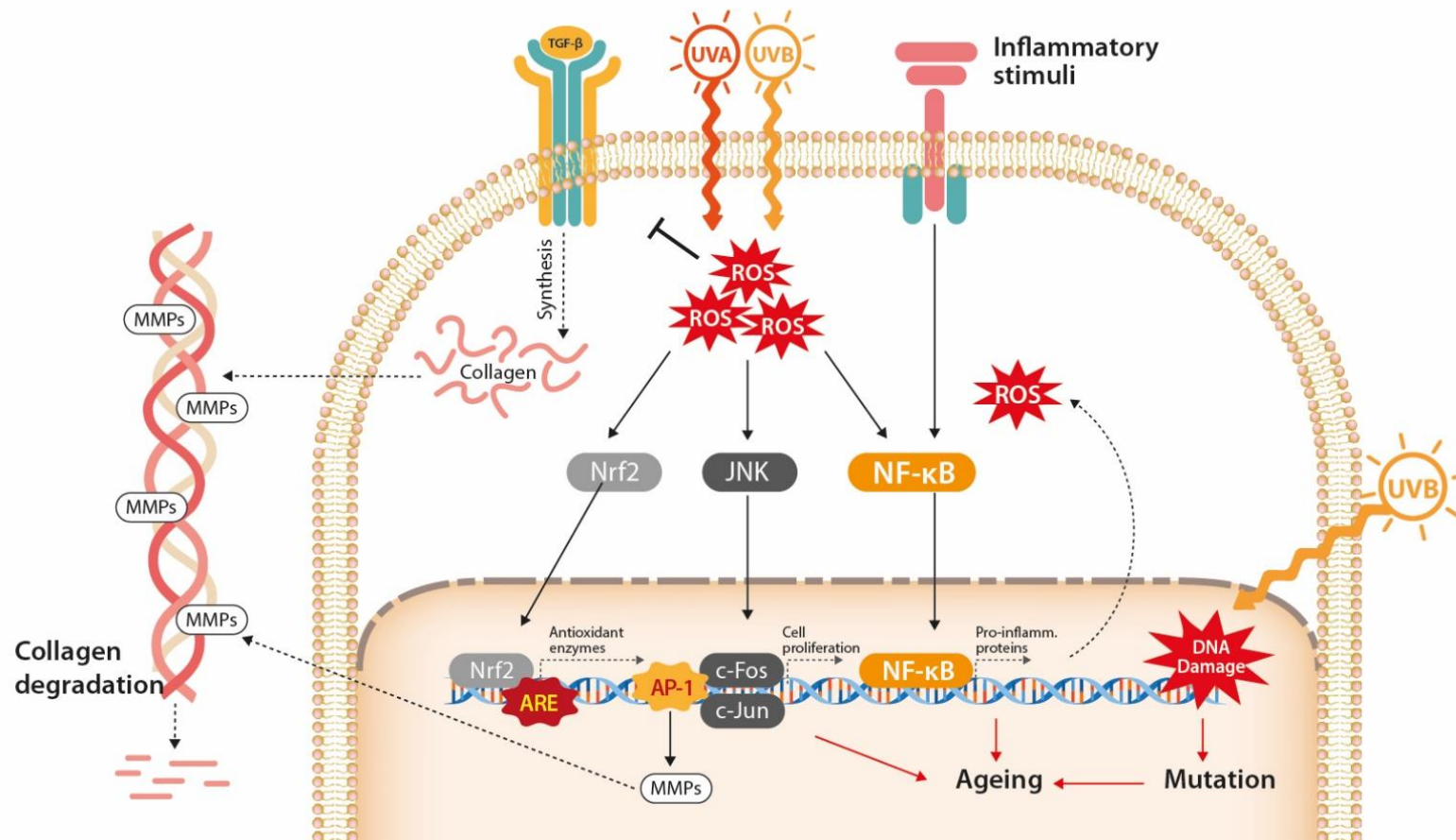


Oxidative stress mechanism

Broom Bloom

Our skin is under attack from many daily life factors such as UV, pollution and smoking.

These factors increase the Reactive Oxygen Species (ROS). It causes cellular damage, resulting in skin aging.

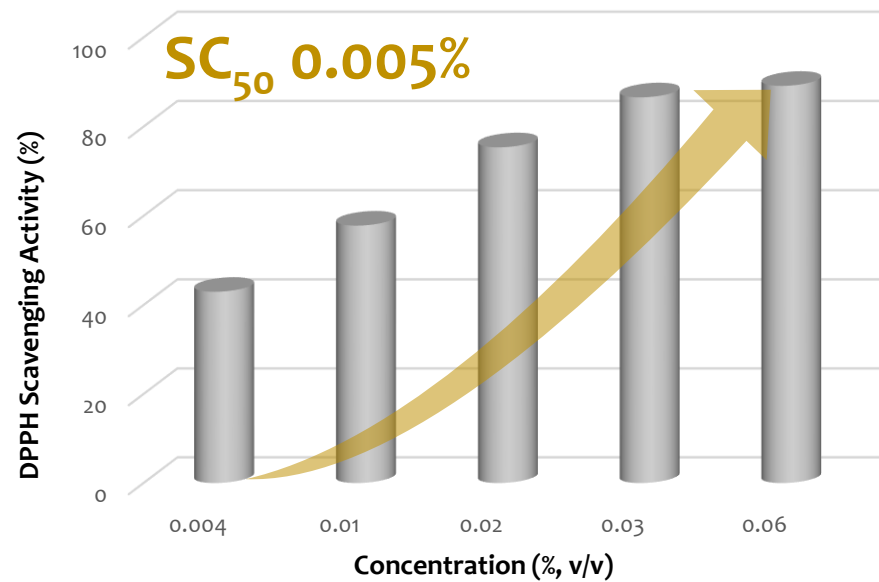


Anti-oxidant effects of Broom Bloom

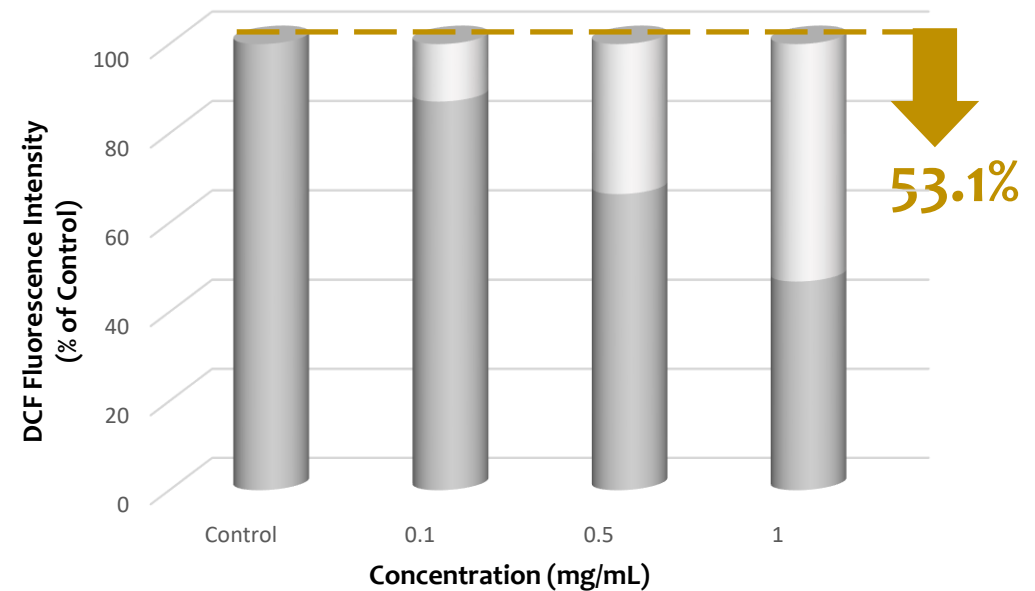
Broom Bloom

When testing for free radical scavenging activity, oxygen radical absorbance capacity, it was confirmed that as the concentration of the Broom Bloom increases, the inhibition activity also increases along with it.

Free Radical Scavenging Activity (*in tubo*)



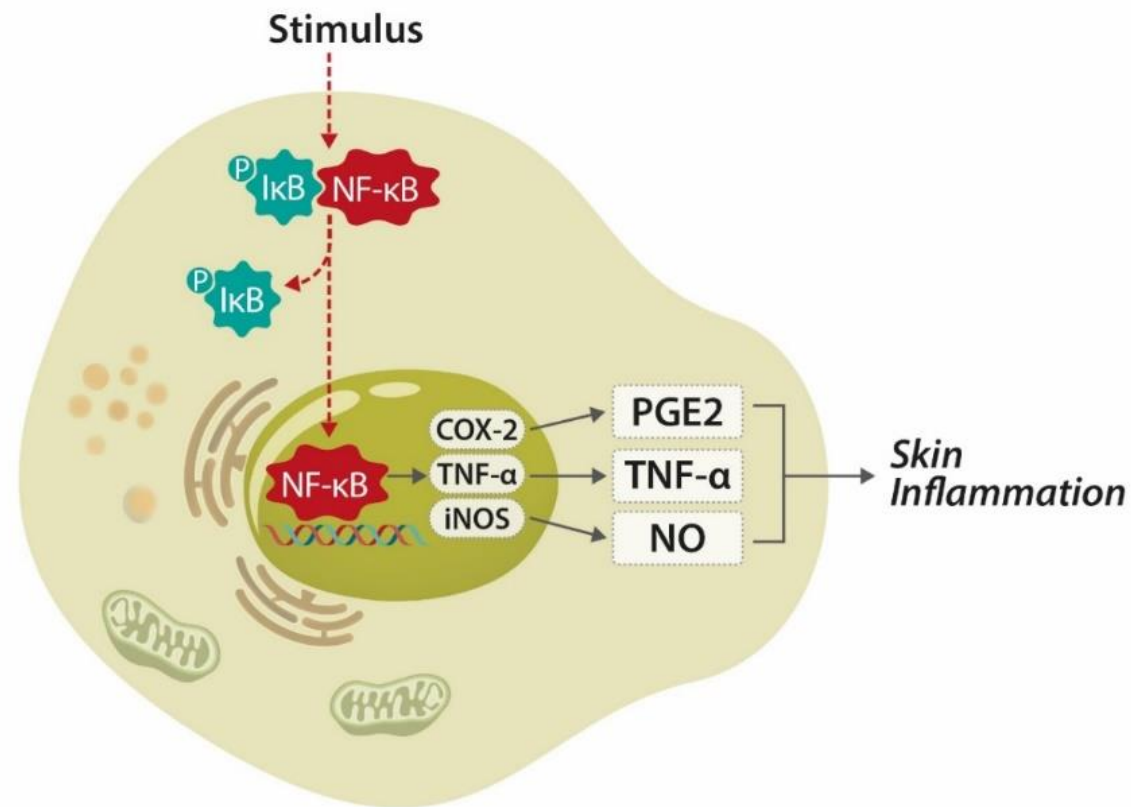
ROS Inhibition Activity (*in vitro*)



Anti-inflammation mechanism

Broom Bloom

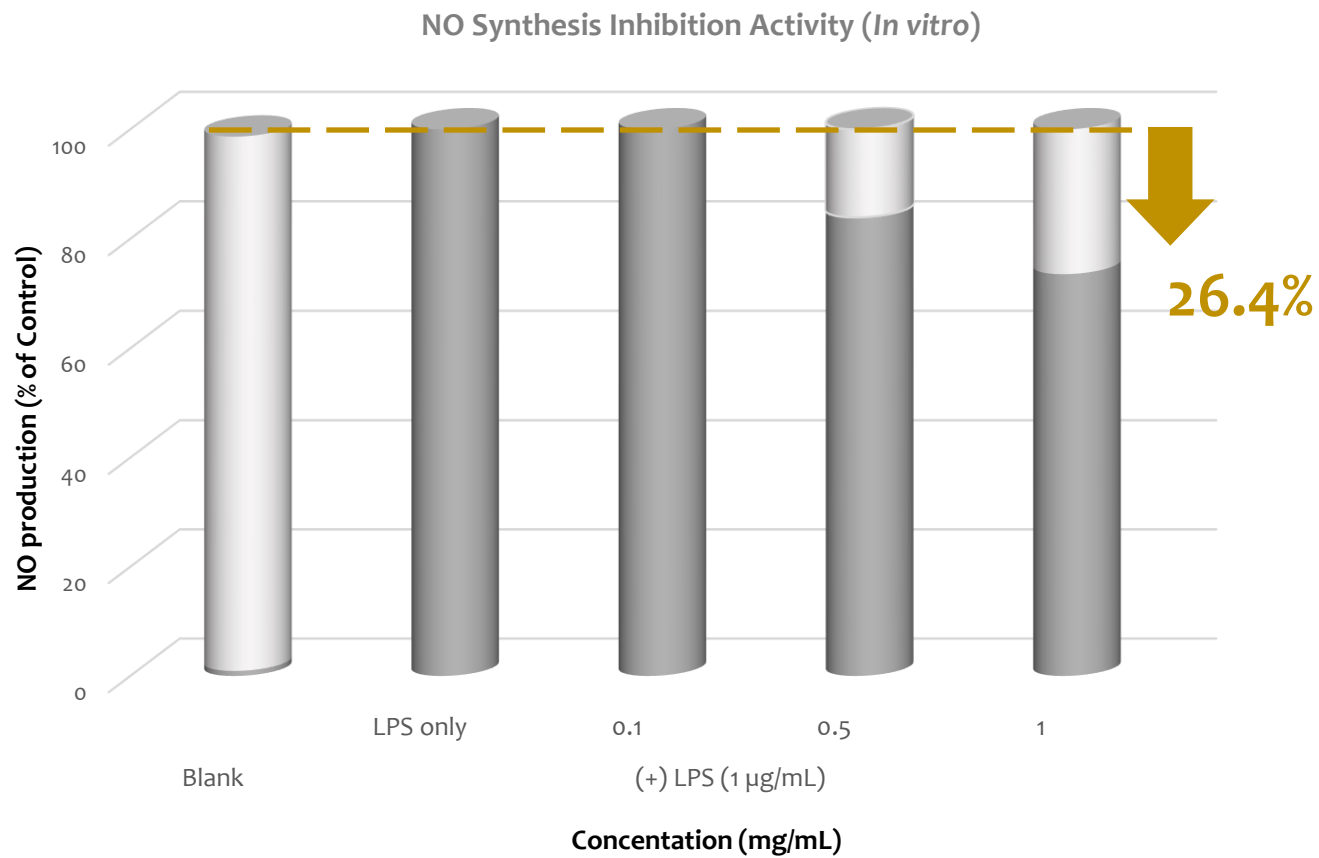
The immune system is responsible for protecting our skin from harmful stimuli and for maintaining homeostasis. In the case of hyperimmune reaction, skin irritation can occur.



Anti-inflammatory effects of Broom Bloom

Broom Bloom

According to the efficacy evaluation result, Broom Bloom showed anti-inflammatory efficacy by inhibiting Nitric Oxide (NO) synthesis.



Summary

1. ANTI-OXIDATION
2. ANTI-INFLAMMATION
3. PHYTOCHEMICALS



Product information



Product Name: Broom Bloom

INCI name: *Sarothamnus Scoparius* Extract

Dosage: 1-3%

Formulation: Add to the formulation when the temperature is lower than 55°C.
Recommended to add after the cooling process.

Efficacy: Anti-oxidation, Anti-inflammation



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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