



# Velvetein

**Plant part:** Aerial parts

**Scientific name:** *Verbascum thapsus*

**INCI name:** Verbascum Thapsus Extract

**IECIC 2015 name:** VERBASCUM THAPSUS EXTRACT

# Health benefits of Mullein

- The flowers and leaves are analgesic, anti-inflammatory, antiseptic, spasmolytic, astringent, diuretic, emollient, expectorant and vulnerary.
- Homeopathic formulations containing fresh leaves are used in the treatment of longstanding headaches accompanied with oppression of the ear.
- Ointments prepared from leaves are used for burns and earache. Topically, the poultice of the leaves is a good healer of wounds and is also applied to ulcers, tumors and piles.
- Infusion of the flowers in olive oil is used as earache drops having strong bactericidal properties.
- An infusion or tea of the plant is taken internally in the treatment of a wide range of chest and abdominal complaints including productive cough and diarrhea.
- A decoction of the roots is said to toothache and relieve also cramps and convulsions alleviate.



Velvetein

Reference: Riaz, M., Zia-Ul-Haq, M., & Jaafar, H. Z. (2013). Common mullein, pharmacological and chemical aspects. *Revista brasileira de farmacognosia*, 23(6), 948-959.

# History of Mullein in skin care

Velvetein

- The flowers have a sweet and emollient quality and an **oil infusion** can be made and used externally or in a natural ear drop. The flowers and leaves have been used as a **dye for fabric and hair**. Native American cultures have smoked the dried leaves in ceremonial and medicinal blends.
- The dried leaves were traditionally used as a tea supporting **pulmonary and respiratory function**. The seeds and flowers in both fresh and dry form have been infused in warm oil for external preparations. The fluid extract was included in numerous versions of the National Formulary of the American Pharmaceutical Association dating back to the 1906 Third Edition.
- A decoction of the seeds is used to **soothe chilblains and chapped skin**.
- The juice of the plant and powder made from the dried roots is said to quickly remove **rough warts** when rubbed on them.



Reference: <https://www.gaiaherbs.com/blogs/herbs/mullein>

# Mullein on skin

Velvetein

Prevention body smell  
and skin aging

Skin moisturizing and  
conditioning effects

Treatment on  
skin disorders



#### References:

- Ota, M., Wada, G., Aidzu, Y., 1999. Antioxidants containing Verbascum plant extracts and cosmetics containing the extracts. Jpn. Kokai Tokkyo Koho. Patent. JP11171723.
- Ohara, M., Doi, M., Kondo, M., 2001. Cosmetics, bath preparations, and detergents containing plant extracts. Jpn. Kokai Tokkyo Koho. Patent JP2001122730.
- Williams, J.L., 1997. Method of treating skin disorders using an extract of mullein. US Patent 08/855,322.

# Active constituents

Velvetein

Mullein contains over 46 different groups of compounds most notably; mucilage, saponins, coumarins and glycosides. Some of the compounds that have received attention in the scientific literature are; verbascose, verbascoside, verbasterol, rotenone, mucilage, heptaose, coumarin, aucubin, and ascorbic acid, in addition to the minerals, potassium, calcium, iron, magnesium, manganese, phosphorous, and selenium.



Reference: <https://www.gaiaherbs.com/blogs/herbs/mullein>

A close-up photograph of a flowering plant, likely a species of Verbena, showing a vertical stem with numerous small, bright yellow flowers. Each flower has a prominent, reddish-purple center. The background is a soft-focus green, suggesting a natural outdoor setting.

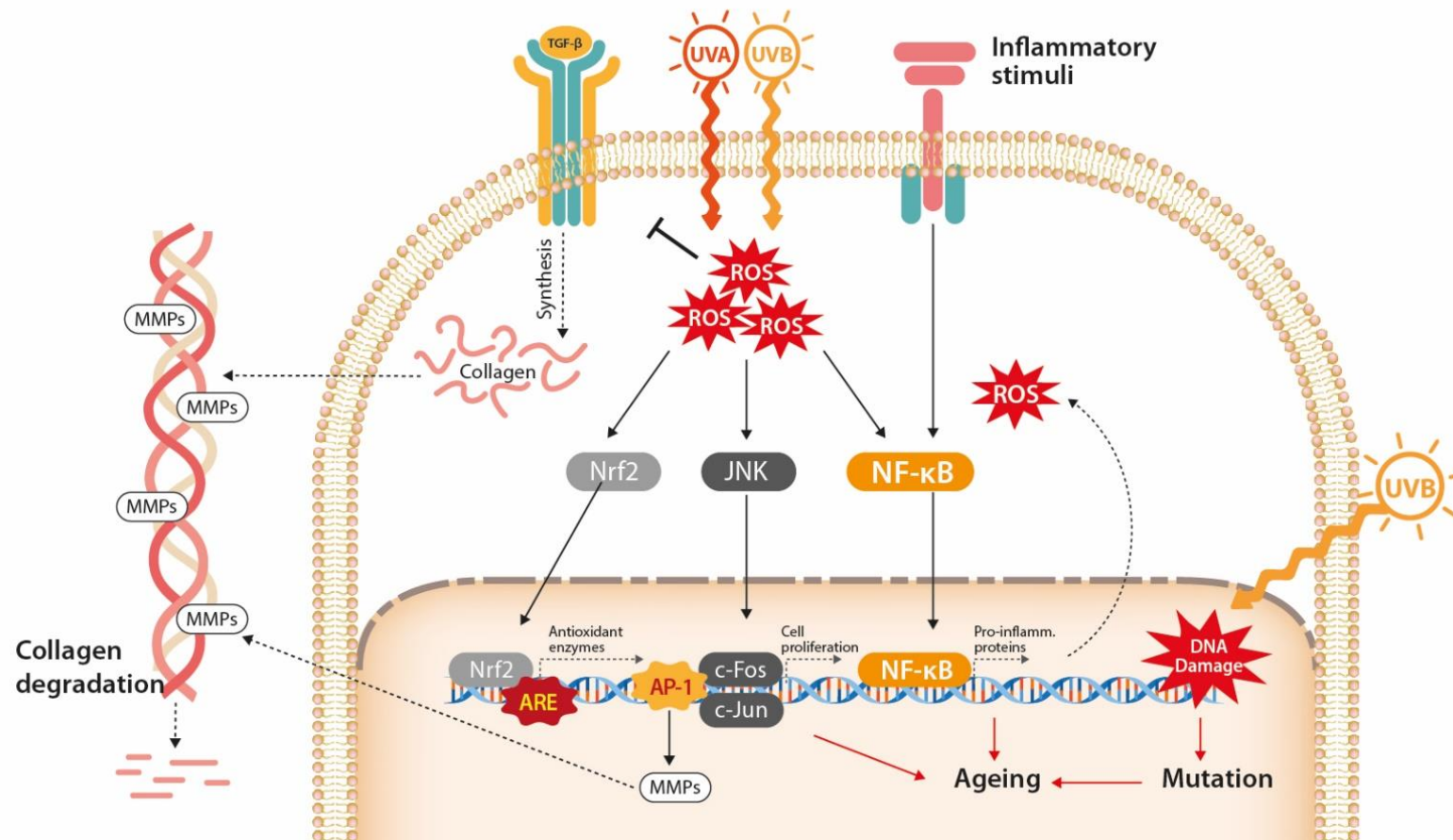
## *in vitro* efficacy

- Anti-oxidant
- Anti-inflammation
- Skin Brightening

# Oxidative stress mechanism

Velvetein

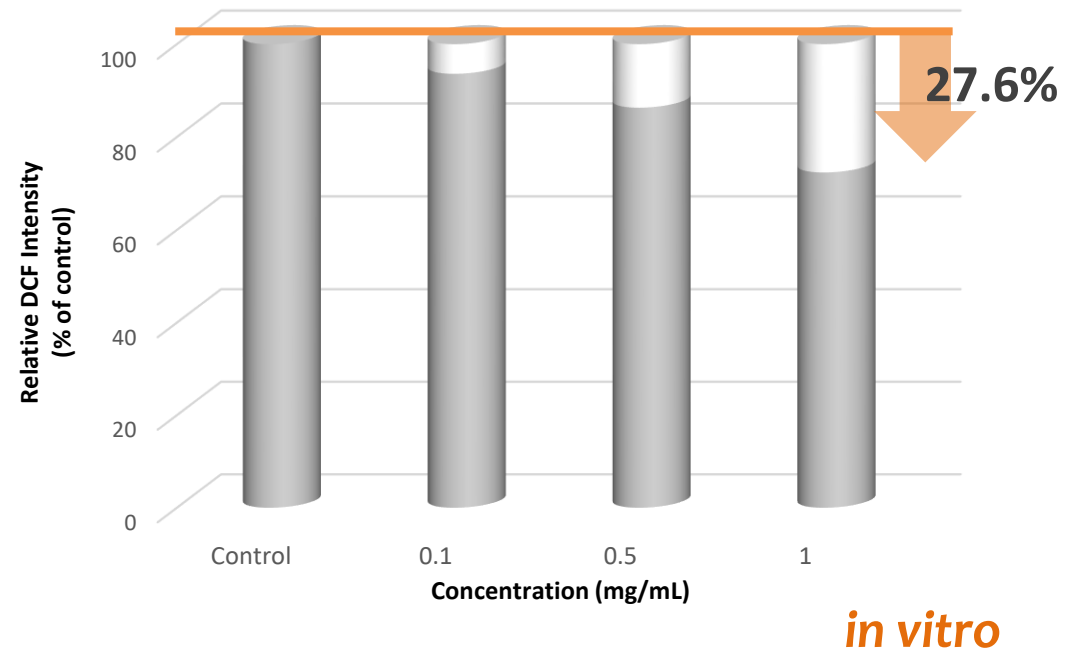
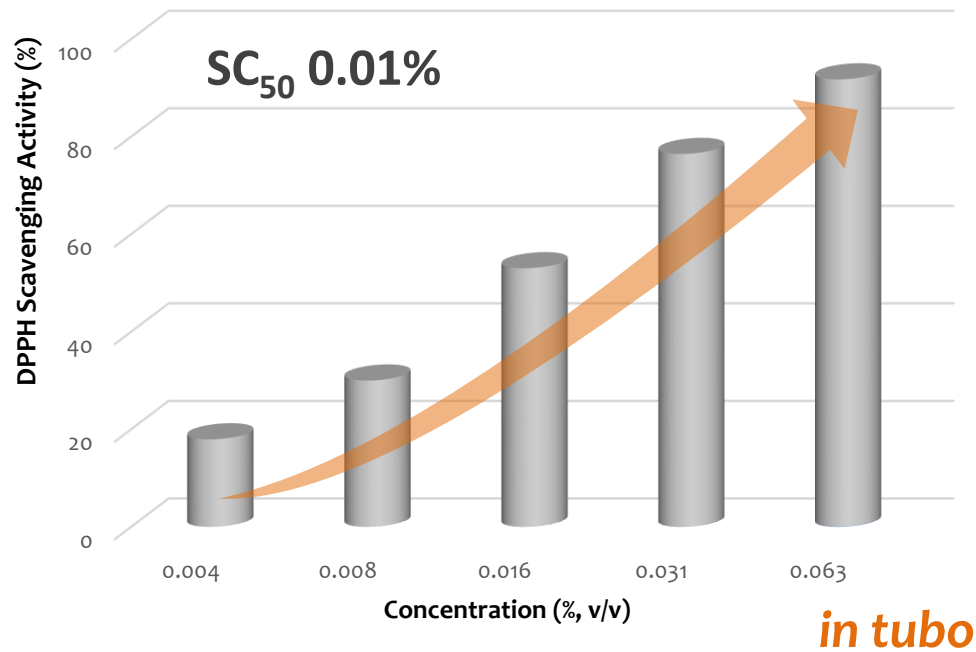
Our skin is under attack from many factors in daily life, such as UV, pollution and stress. These factors increase the Reactive Oxygen Species, which plays a major role in the skin aging process.



# Antioxidant effects of Velvetein

Velvetein

When testing for free radical scavenging activity, it was confirmed that as the concentration of the Velvetein increases, the inhibition activity also increases along with it. Velvetein was also found to reduce oxidative stress by 27.6%.

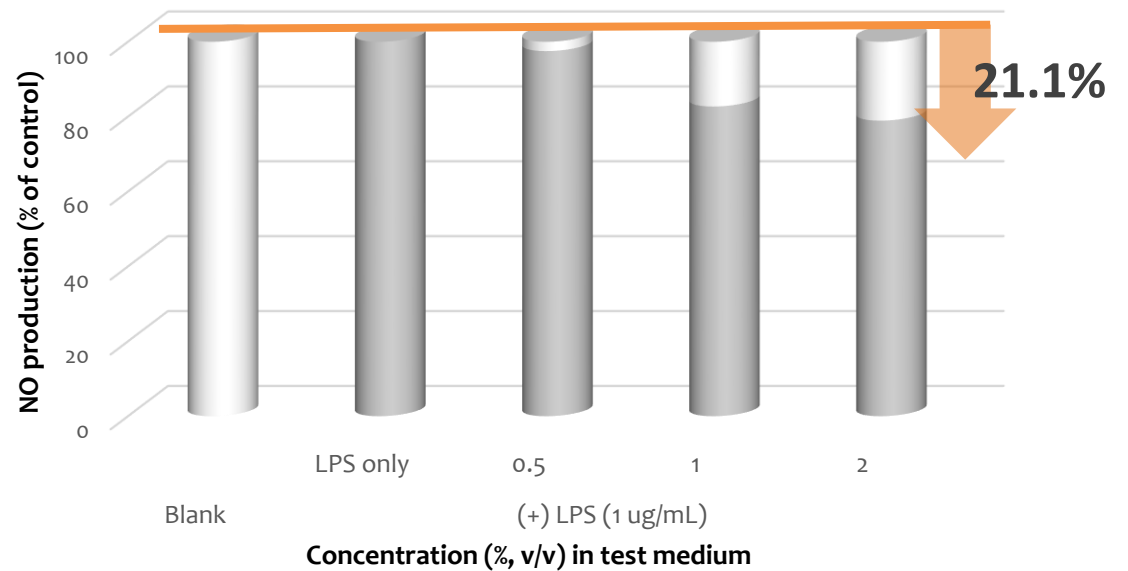
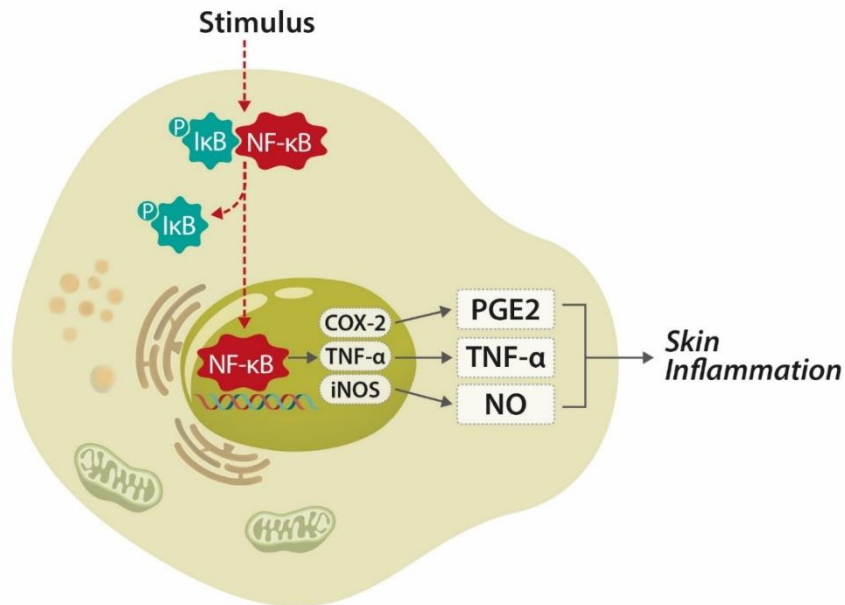




# Anti-inflammatory effects of Velvetein

Velvetein

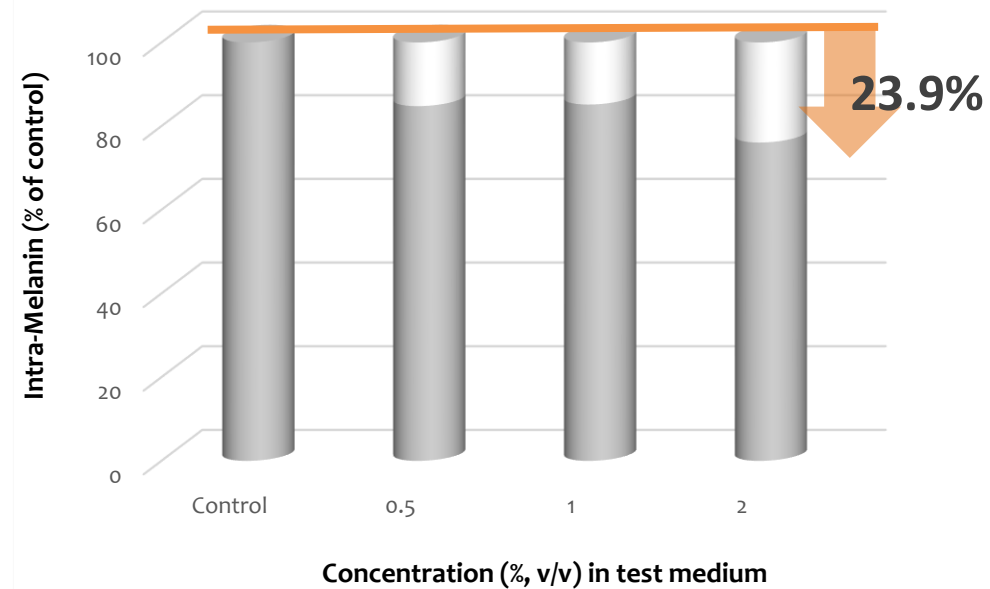
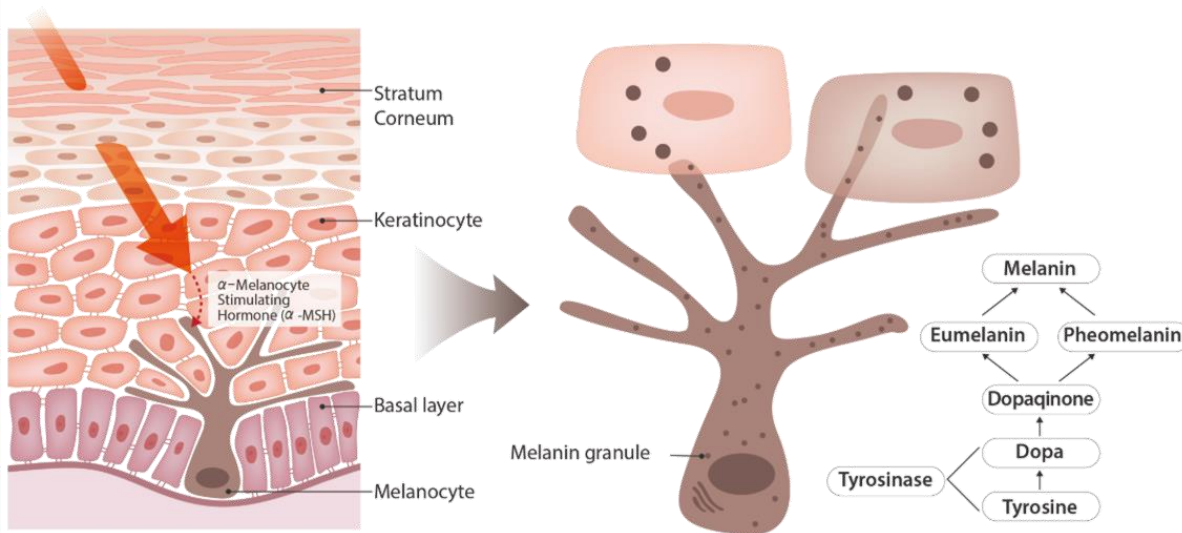
The immune system is responsible of protecting our skin from the harmful stimuli and of maintaining homeostasis. Inflammation impacts the homogeneity of the skin tomes. Velvetein showed anti-inflammatory efficacy by inhibiting Nitric Oxide (NO) synthesis.



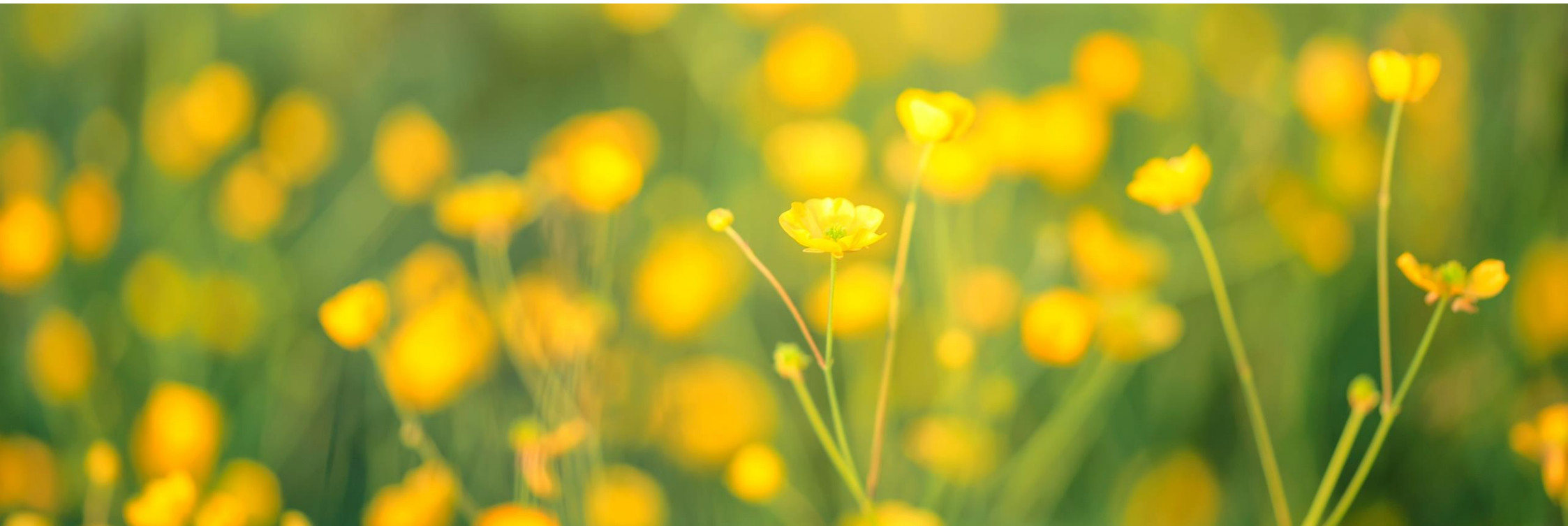
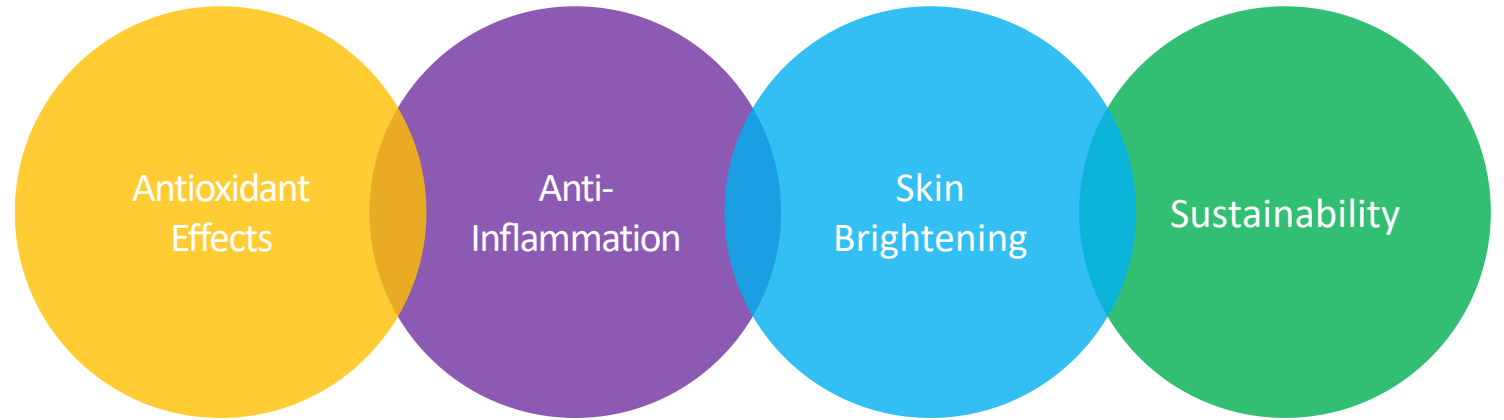
# Skin brightening effects of Velvetein

Velvetein

Melanin is produced through the oxidation process by tyrosinase, which protects the skin from ultraviolet rays. But if it's over-generated, causes skin pigmentation. Velvetein have a skin brightening effect by inhibiting of melanin synthesis.



# Summary



# Product information

- **Product Name** : Velvetein
- **INCI name** : Verbascum Thapsus Extract
- **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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