

MalvaCure

Plant part: Root

Plant name: Marshmallow

Scientific name: *Althaea officinalis*

INCI name: Althaea Officinalis Root Extract

IECIC 2015 name: ALTHAEA OFFICINALIS ROOT EXTRACT



Plant Story



- *Althaea officinalis*, also known as the Marshmallow plant, is found in marshy areas such as on the banks of rivers and in salt marshes, preferring moist, sandy soils.
- The plant is a perennial that grows to around 4-5 feet with grey-green, hairy foliage and clusters of little lilac flowers. It is found in Eastern European countries like France and Germany and certain regions of the United States.
- The traditional medicinal uses of the plant are reflected in the name of the genus, which comes from the Greek word 'althainein', meaning 'to heal' and was known as the 'official healer' in Greece.
- The root of the marshmallow plant contains around 25 – 35% mucilage, which is important for its beneficial effects.

Harvesting MalvaCure

- All parts of the Marshmallow plant (leaves, flowers and root) can be harvested, however, the harvesting time varies depending on the part.
- The root is preferentially harvested in late autumn to early winter, when the ground has not frozen over. Once harvested, it is to be chopped up into small pieces and dried instantly.
- Harvest of the plant root in autumn/ winter period ensures the highest content of actives are found within the root.
- Leaves are to be harvested once flowering has commenced but can be harvested at any point.



Traditional Uses

- The root was once used to create the marshmallow confection. The dried root has even been used as a toothbrush.
- Both the flowers and the root can be used to make tea and including the seeds have been used in cooking for salads.
- The stem and root of the plant hold a fibre that can be used in the creation of paper.
- The plant is classed as a traditional herbal medicinal used in treatment of catarrh/ irritation of the mouth/ throat, burns and ulcers.

Scientific Research



Scientific research has demonstrated anti-inflammatory effects in relieving skin irritation caused by eczema and dermatitis.

Marshmallow Root has also been found to have antibacterial activity against Gram (+) bacteria.

Mucilage found in the roots maintains healthy hair and scalp by keeping them moisturised.

Extracts created with dried entire plant were found to have antioxidant effects in numerous tests, thought to relate to its alpha-tocopherol content.

Key Functions

Antioxidant

Anti-inflammatory

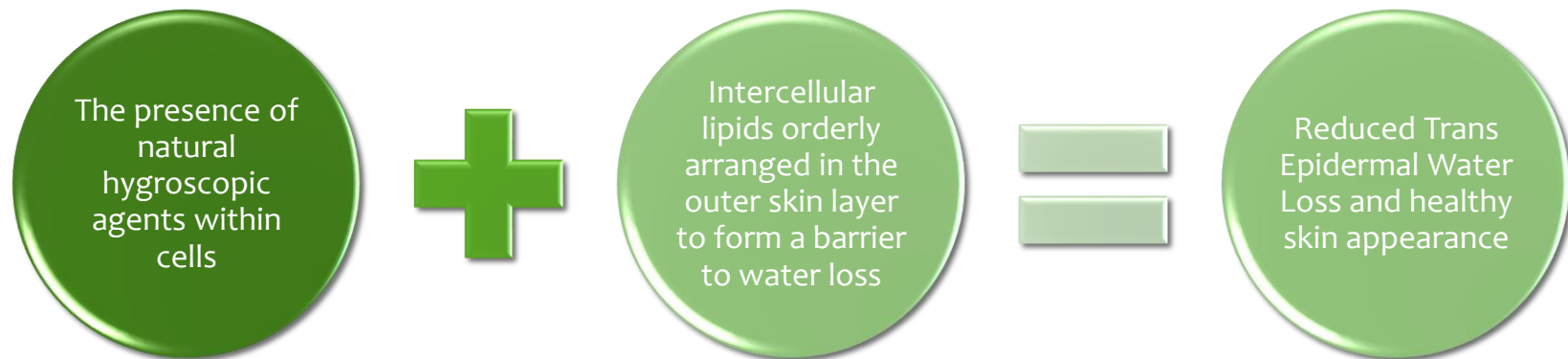
Antibacterial

Skin Structure

Four Layers

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

➤ Retention of water in the skin

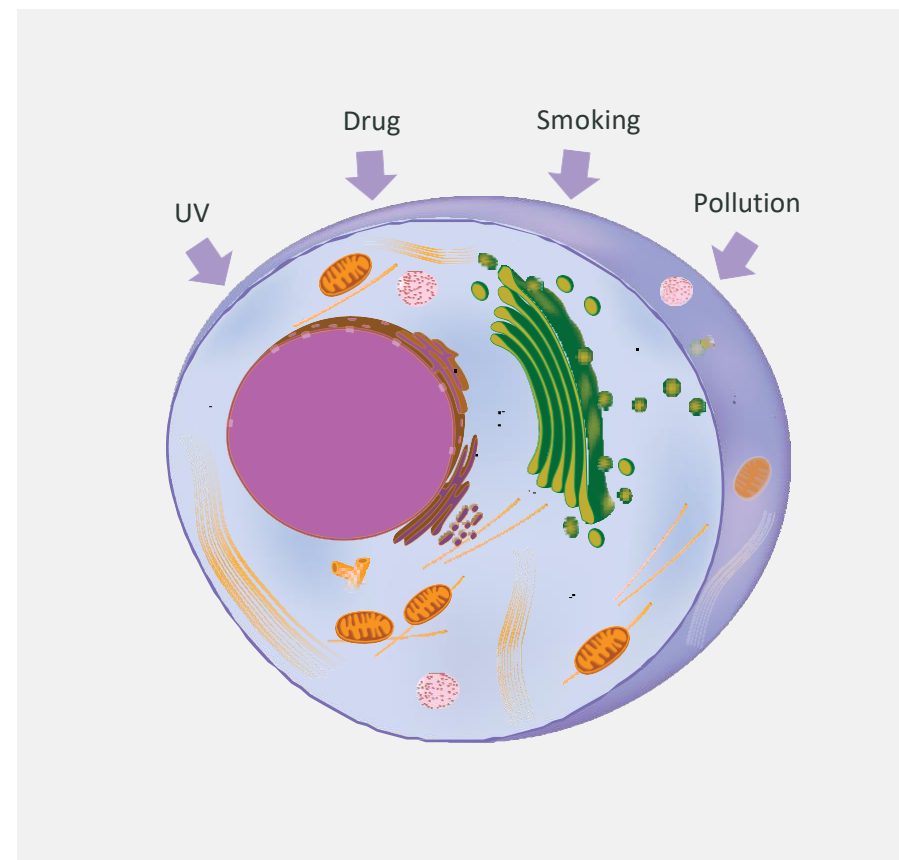


Antioxidants

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).

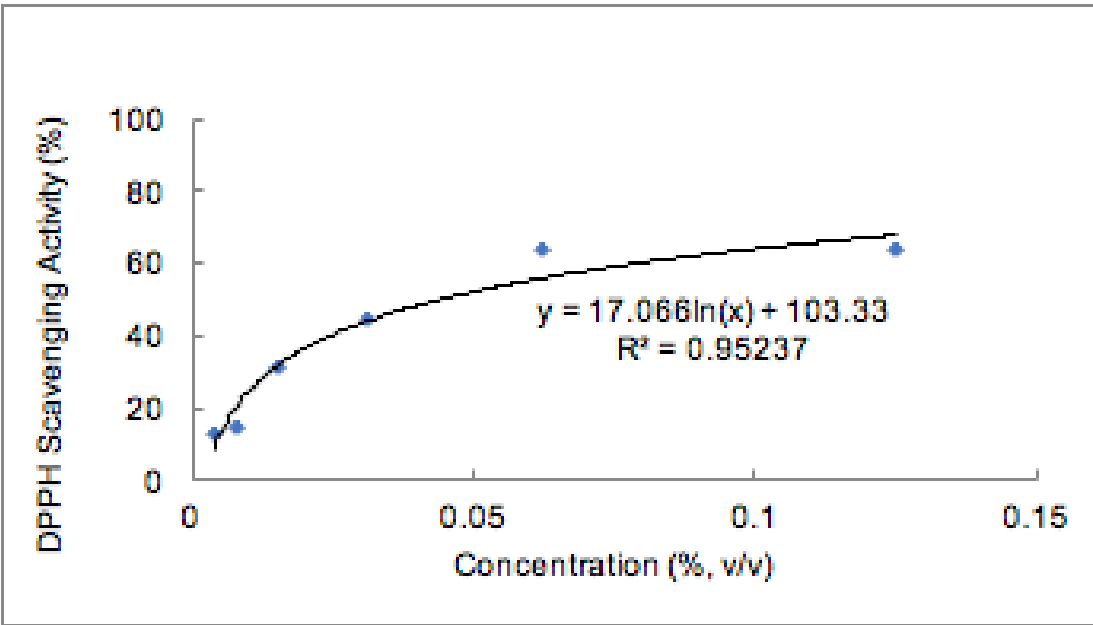


Antioxidants from MalvaCure can inhibit the generation of ROS and in turn inhibit cellular damage.



In vitro Efficacy Evaluation: Antioxidant

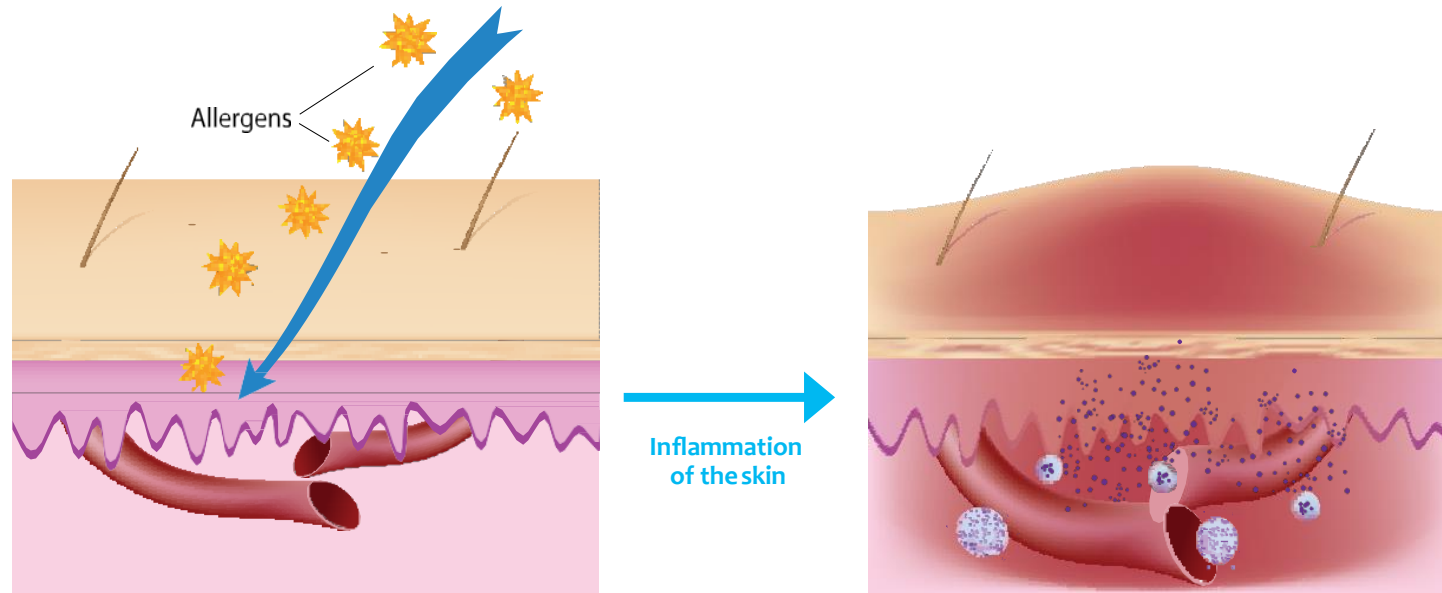
- DPPH Scavenging Activity



SC₅₀: 0.04%

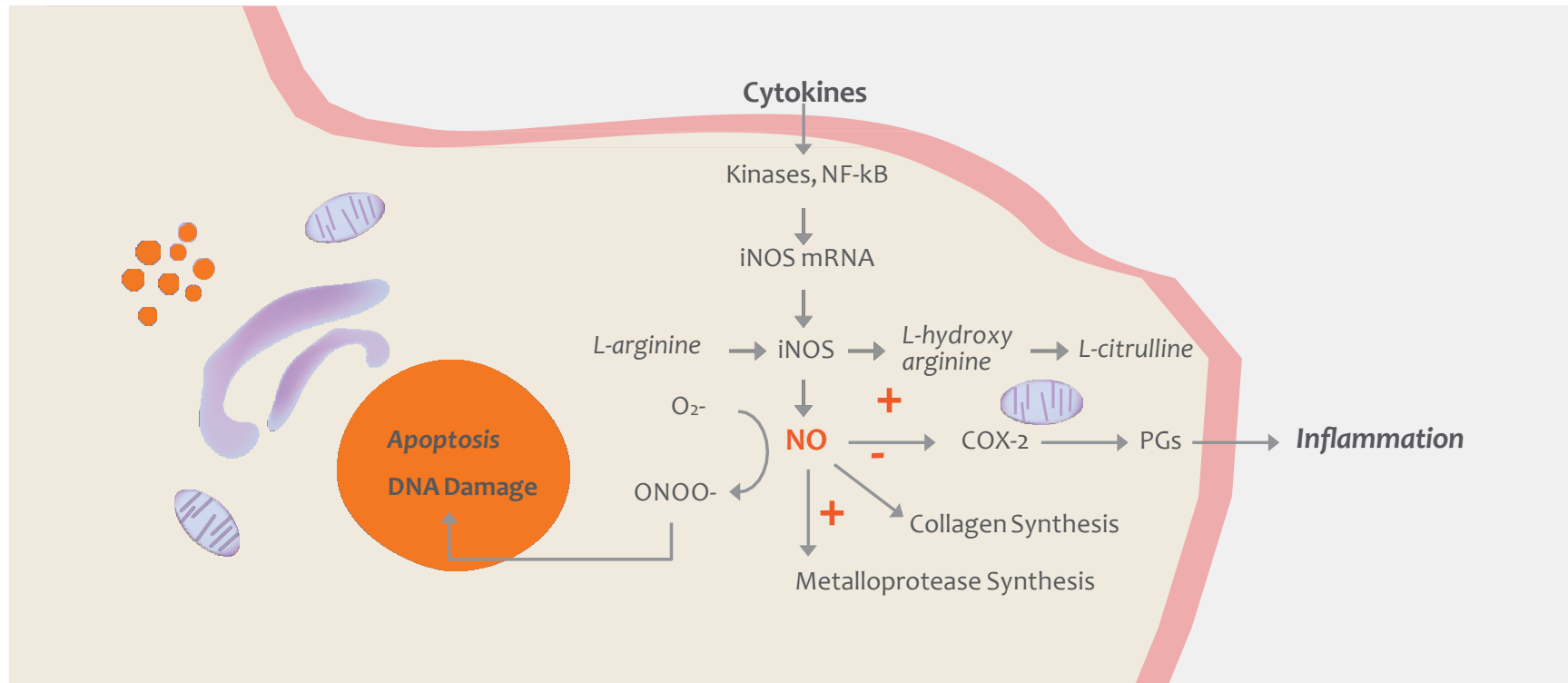
MalvaCure was found to be a good antioxidant inhibiting 50% of free radicals at 0.04%, in our test.

What is Inflammation?



Inflammation is part of the complex biological responses to wide range of harmful stimuli including injury, tissue necrosis, infection, and irritants. The purpose of inflammation is to destroy (or contain) the damaging agent, initiate repair processes and return the damaged tissue to useful function. The symptoms of inflammation are redness, swelling, heat, and pain, which are caused by increased blood flow into tissue. The immune system is responsible of protecting our body from the harmful stimuli and of maintaining homeostasis. Disorders of the immune system can result in autoimmune diseases, inflammatory diseases, and cancer. In an attempt to protect the body, the immune system might overreact to the stimuli, and this might cause allergy or inflammatory reactions.

Inflammation Mechanism



Althaea Officinalis Root Extract

- **INCI Name:** Althaea Officinalis Root Extract
- **INCI Monograph ID:** 8522
- **VCRP Reported Name:**

Althaea Officinalis (Marshmallow) Root Extract	VCRP Frequency of Use as of 02/2018 :
Althaea Officinalis Root Extract	148
	133
- **Definition:** Althaea Officinalis Root Extract is the extract of the roots of the althaea, *Althaea officinalis*.
- **SAFETY/REGULATORY INFORMATION**
- **Information Source(s):** [21CFR172.510](#), JCIC, JCLS, JSQI, UNII: TRW2FUF47H
- **Chemical Class(es):** [Botanical Products and Botanical Derivatives](#)
- **Reported Functions:** [Skin-Conditioning Agents - Miscellaneous](#)
- **Reported Product Categories:** [Bath Preparations, Misc.](#); [Bath Soaps and Detergents](#); [Body and Hand Preparations \(Excluding Shaving Preparations\)](#); [Cleansing Products \(Cold Creams, Cleansing Lotions, Liquids and Pads\)](#); [Eye Lotions](#); [Eye Makeup Preparations, Misc.](#); [Face and Neck Preparations \(Excluding Shaving Preparations\)](#); [Fragrance Preparations, Misc.](#); [Hair Conditioners](#); [Hair Dyes and Colors \(All Types Requiring Caution Statements and Patch Tests\)](#); [Hair Preparations \(Non-coloring\), Misc.](#); [Moisturizing Preparations](#); [Paste Masks \(Mud Packs\)](#); [Personal Cleanliness Products, Misc.](#); [Shampoos \(Non-coloring\)](#); [Skin Care Preparations, Misc.](#); [Skin Fresheners](#); [Tonics, Dressings, and Other Hair Grooming Aids](#)
- **Ingredient Source(s):** Plant
- **Technical Name(s):**
 - Althaea Extract
 - Marshmallow Root Extract
- **Trade Name Mixture(s):** [Click here to view full list of Trade Name Mixtures](#)

Source: Personal Care Products Council

Reported Functions

Product Information

- **Product Name :** MalvaCure
- **INCI name :** Althaea Officinalis Root 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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