

# Root Care

Plant part: Root

Plant name: Burdock

Scientific name: *Arctium lappa*

INCI name: Arctium Lappa Root Extract

IECIC 2021 name: ARCTIUM LAPPA ROOT EXTRACT



# Plant Story

---

- *Arctium lappa*, commonly known as Burdock, is a biennial herb, which flowers from July to September and prospers in locations where there has been human disruption.
- The plant grows to roughly 90-200 cm in height and can be found throughout most of Europe, and East to northern Asia.
- It has a single flower-like capitula which dark purple stamen.



# Harvesting Root Care

- Burdock roots are harvested during their first year of growth, in autumn.
- Preferential to harvest when the root is shorter than 60 cm with roots being white in colour but changes colour due to exposure to air.
- Should be dried in a well-ventilated space and can take around 3-7 days to dry.

# Traditional Uses

- Both Chinese and Western herbal medicine regard this plant one of the strongest **detoxifying** plants.
- The root has also been used as a remedy for infections, rashes, boils and other skin problems.
- The fleshy root is a popular choice of tea. The tea has been consumed for centuries all over the world but has also been used in other traditional remedies.
- Burdock Root contains powerful antioxidants such as quercetin and luteolin.
- In addition, it has been proven to hold anti-inflammatory actions by inhibiting iNOS and nitric oxide production.



# Key Functions



Antioxidant



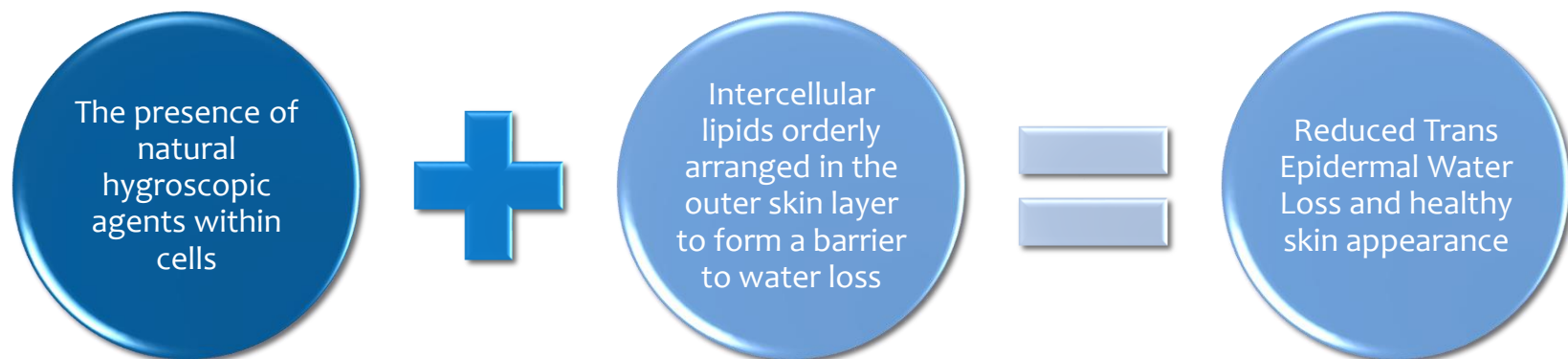
Anti-Inflammatory

# Skin Structure

## Four Layers

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

### ➤ Retention of water in the skin

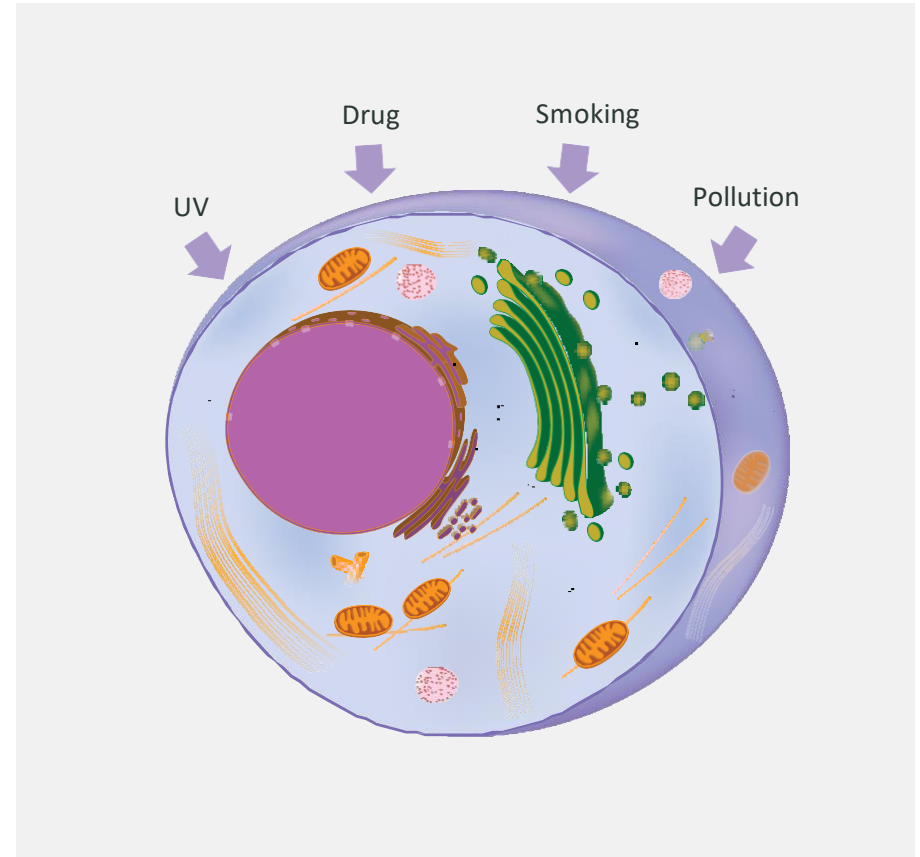


# Antioxidants

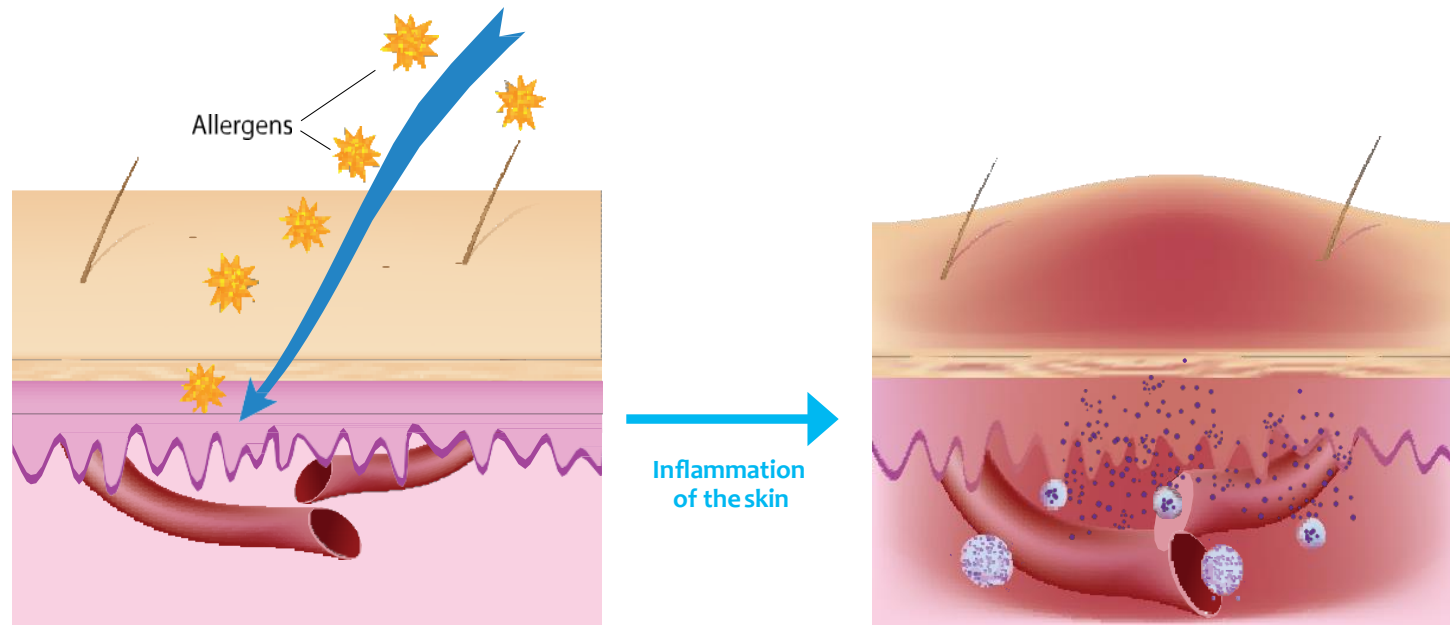
Our skin is under attack from many factors in daily life, such as UV, pollution and smoking. These factors increase the Reactive Oxygen Species (ROS).



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

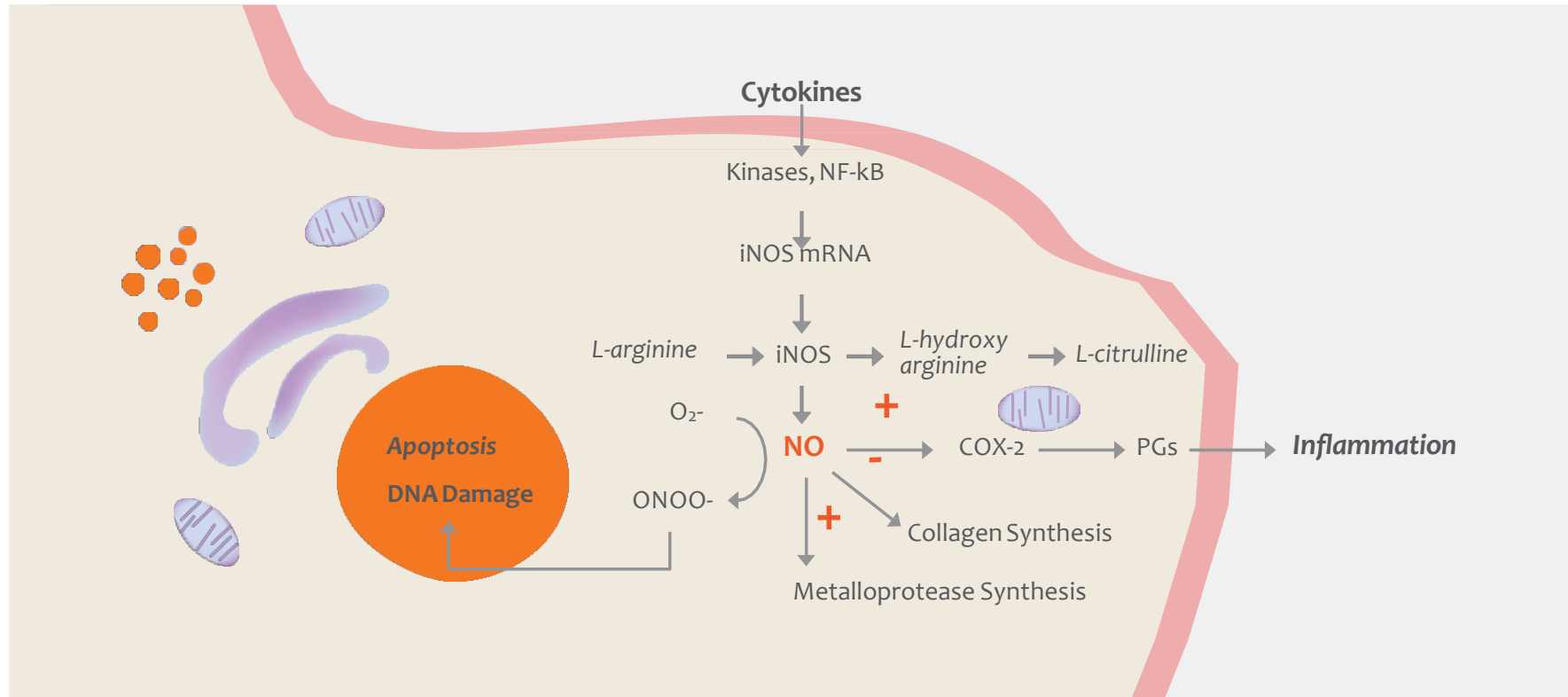


# What is Inflammation?



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



## Arctium Lappa Root Extract

- **INCI Name:** Arctium Lappa Root Extract
- **INCI Monograph ID:** 8538
- **VCRP Reported Name:**

Arctium Lappa (Burdock) Root Extract	VCRP Frequency of Use as of 02/2018 :
Arctium Lappa Root Extract	15
Burdock Root Extract	161
	61
- **CAS No:** 84012-13-5      **EINECS (I) / ELINCS (L):** 281-658-8 (I)
- **Definition:** Arctium Lappa Root Extract is the extract of the roots of *Arctium lappa*.
- **SAFETY/REGULATORY INFORMATION**
- **Information Source(s):** [ECHA-R](#), [JCIC](#), [JCLS](#), [UNII: 597E9B13Z3](#)
- **Chemical Class(es):** [Botanical Products and Botanical Derivatives](#)
- **Reported Functions:** [Skin-Conditioning Agents - Miscellaneous](#)
- **Reported Product Categories:** [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 Powders](#); [Face and Neck Preparations \(Excluding Shaving Preparations\)](#); [Foundations](#); [Hair Conditioners](#); [Hair Dyes and Colors \(All Types Requiring Caution Statements and Patch Tests\)](#); [Hair Preparations \(Non-coloring\), Misc.](#); [Makeup Preparations \(Not eye\), Misc.](#); [Moisturizing Preparations](#); [Night Skin Care Preparations](#); [Paste Masks \(Mud Packs\)](#); [Personal Cleanliness Products, Misc.](#); [Preshave Lotions \(All types\)](#); [Shampoos \(Non-coloring\)](#); [Skin Care Preparations, Misc.](#); [Skin Fresheners](#); [Tonics, Dressings, and Other Hair Grooming Aids](#)
- **Ingredient Source(s):** Plant
- **Technical Name(s):**
  - Burdock (Arctium Lappa) Extract
  - Great Burdock Extract
  - Lappa Extract
- **Trade Name(s):** [Click here to view full list of Trade Names](#)
- **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 :** Root Care
- **INCI name :** Arctium Lappa 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.



Tel  
+44 (0)131 629 9584



E-mail  
[marketing@tsocalledonia.co.uk](mailto:marketing@tsocalledonia.co.uk)



Address  
Unit 8F Edgefield Rd Ind Est, Loanhead,  
EH20 9TB