

ActiveE-RSO

Plant part: Aerial Parts

Scientific name: *Echinacea angustifolia*

INCI name: Echinacea Angustifolia Extract

IECIC 2015 name: ECHINACEA ANGUSTIFOLIA EXTRACT



ActiveE-RSO

Product Name: ActiveE-RSO

Plant Name: Echinacea

Echinacea angustifolia is a flowering plant that is native to North America.

The Native Americans used this plant as medicinal herb, and it wasn't until the 18th and 19th Century where it was popularised and introduced to Westerners.



The extracts of echinacea were often used in the **treatment and prevention of upper respiratory tract infections and as an immune stimulant.**

A tea made from echinacea was said to boost the immune system and reduce pain. **Topically, it was applied to the skin to help with problems such as acne, inflammation, boils and wounds.**

Caffeic acid derivatives, glycoproteins and polysaccharides are some of the phytochemicals found in echinacea. **Lipophilic alkamides found in echinacea have strong anti-inflammatory properties.**

[1] Echinacoside and caffeoyl conjugates protect collagen from free radical-induced degradation: a potential use of *Echinacea* extracts in the prevention of skin photodamage, Facino *et al.*, *Planta Med*, 1995, 61(6), p.510-514

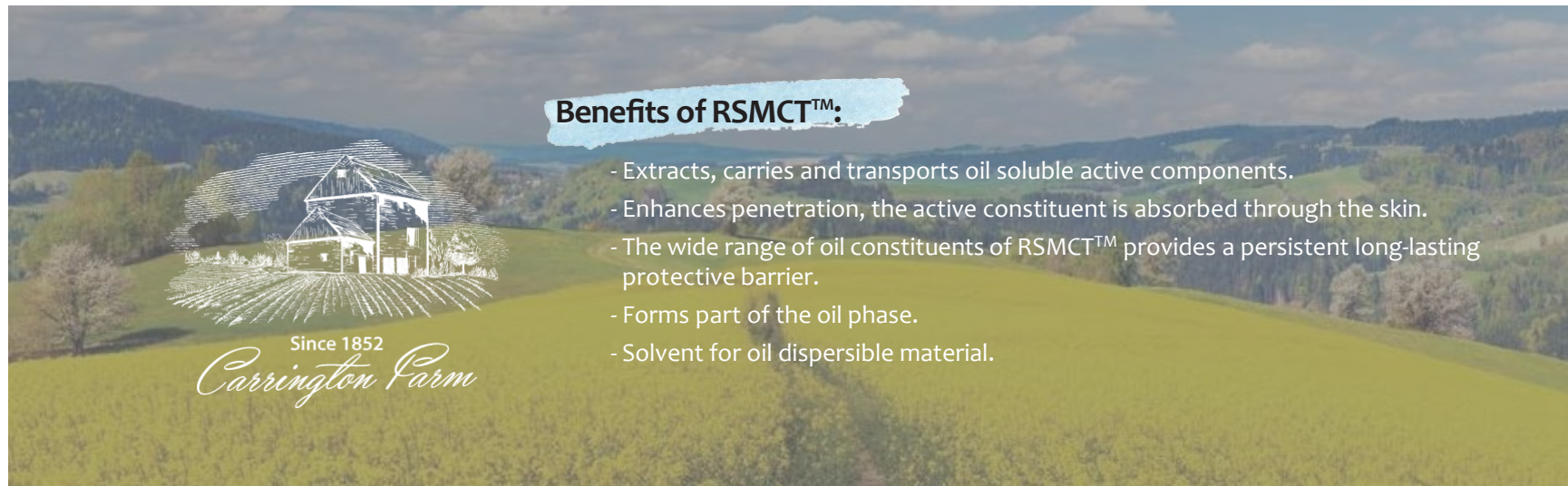
[2] Anti-inflammatory activity of a polysaccharide fraction of *Echinacea angustifolia*, Tubaro *et al.*, *J Pharmacol*, 1987, 39(7), p.567-569

The Secrets of Caledonia

RSMCT™

Our unique **RSMCT™** contains the properties of an effective solvent and skin-conditioning agent which makes it an excellent carrier oil for our herbal infusions.

The rapeseed oil that we use is produced at Carrington Barns, a local family-run farm just 8 miles south of Edinburgh. The rapeseed is grown at the farm, then cold-pressed to maintain its nutrition and the stability of actives, such as antioxidant molecules.

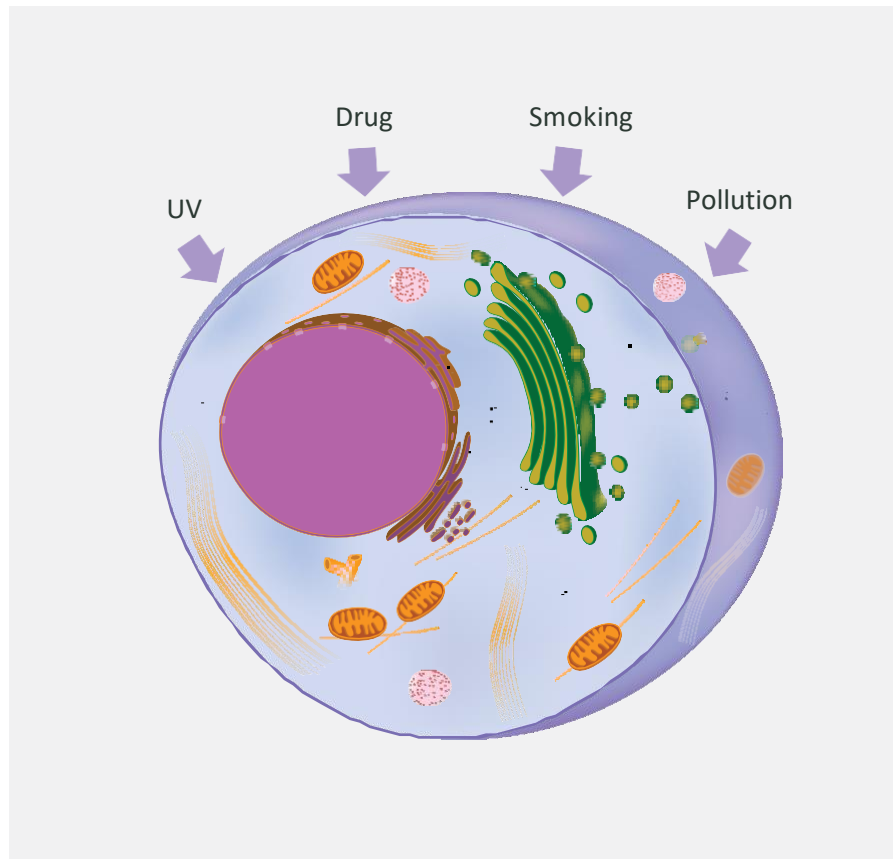


Benefits of RSMCT™:

- Extracts, carries and transports oil soluble active components.
- Enhances penetration, the active constituent is absorbed through the skin.
- The wide range of oil constituents of RSMCT™ provides a persistent long-lasting protective barrier.
- Forms part of the oil phase.
- Solvent for oil dispersible material.

Since 1852
Carrington Farm

Antioxidants



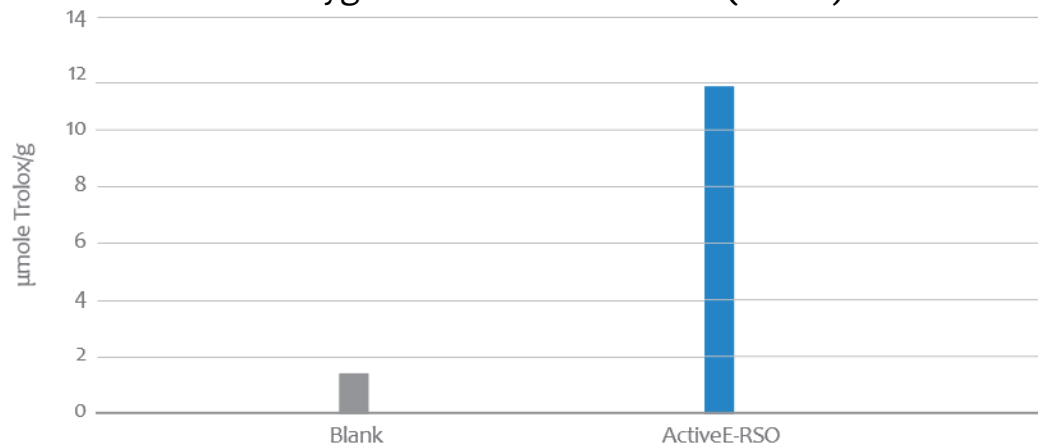
Why are they important?

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).

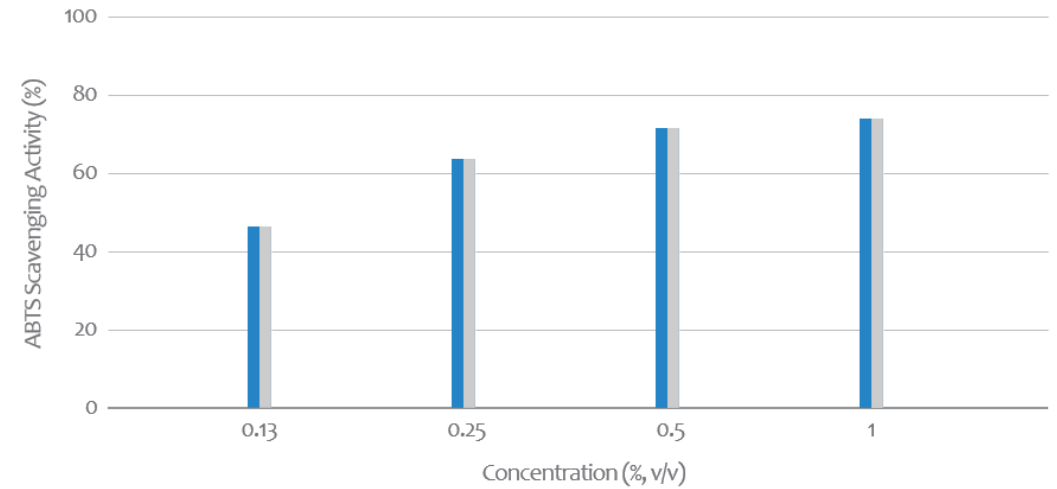
Antioxidants from Echinacea can inhibit the generation of ROS and in turn inhibit cellular damage.

Antioxidant Effect of ActiveE-RSO (*in vitro*)

Oxygen Radical Absorbance (ORAC)



ABTS Radical Cation Scavenging Activity



ActiveE-RSO displayed outstanding antioxidant activities in both ABTS and ORAC scavenging assays.

Product Information

Product Name : ActiveE-RSO


INCI name : Echinacea Angustifolia 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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