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Skin Care

Newsletter PersonalCare 4/2022

MELATULINE®
Spilanthes Acmella Extract

August 2022

In recent years, the presence of Acmella oleracea extract on the cosmetic market has increased significantly. However, the spilanthol in high concentration is only found in few of them. It seems that in the case of many other anti-wrinkle cosmetics (or raw material), the concentration of spilanthol is too low and the extract is mostly used for advertising purposes.

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Properties

Spilanthol exhibits a broad spectrum of biological activity, including anti-inflammatory, antioxidant, bacteriostatic and analgesic. Importantly, spilanthol inhibits contractions of the facial muscles, and thanks to it was called a natural herbal botox. In addition, it has excellent migration properties across all layers of the skin, giving it the ability to reach the muscles transdermally.

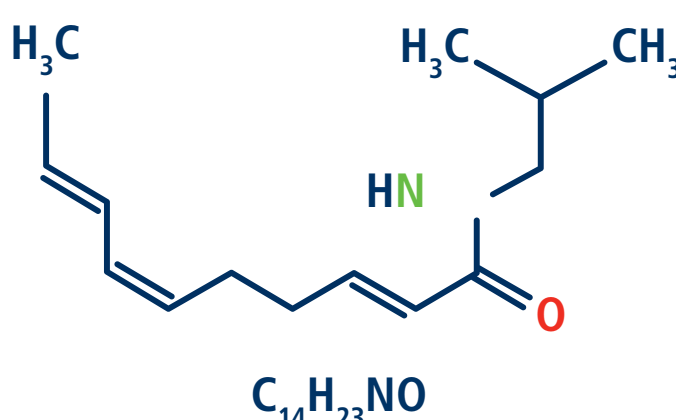
Identification of the Active Substance (Spilanthol)

In 2019, our partner MELALEUCA Poland Ltd. has developed an effective technology to obtain the extract from Acmella oleracea, containing min. 5% of spilanthol. They confirmed the presence of this natural active substance in the extract prepared from the all aerial parts of the plant grown in ecological areas from certified crops in Poland.

The production technology is covered by patent protection. The shredded and dried plant material is extracted and then purified under mild conditions, using non-toxic reagents that are not hazardous to the environment.

In the factory, Melaleuca uses the Good Manufacturing Practice (GMP) system, certified by an independent auditor.

Spilanthol



Melatuline® Raw Material Line

Melatuline is a natural cosmetic active ingredient isolated from dried flowers by ethanol extraction. The individual base components* of the extract enable the direct use of the raw material in the production of cosmetic preparations.

	Melatuline 0.5	Melatuline 2.0	Melatuline GL	Melatuline AL
Appearance	Liquid oil	Liquid oil	Liquid oil	Liquid
Colour	Pale yellow	Pale yellow	Pale yellow	Pale yellow
Spilanthol Content	min. 500mg/L	min. 2,000mg/L	min. 500mg/L	min. 500mg/L
Solubility at 20°C	Plant oils, fats, water-insoluble	Plant oils, fats, water-insoluble	Water, alcohol	Water, alcohol
*Base component	Caprylic / Capric Triglyceride	Caprylic / Capric Triglyceride	Glycerin	Ethyl alcohol

The concentration of spilanthol is measured by the method of high-performance liquid chromatography in combination with mass spectrometry.

Applications

Face care

- Anti-aging and anti-wrinkle preparations modeling the oval shape of the face

Body care

- Body firming and modelling

Oral care / Dental preparations

- Pain relief gels, toothpastes, breath fresheners

Summary

INCI

- SPILANTHES ACMEELLA EXTRACT (and) base component*

CAS

- 90131-24-1

Shelf life

- 18 months

Imprint

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