

# Pelargonium quercifolium

Top 5 components (as percentage) from GC/MS test performed at KQATSA Analytical & Consulting Scientists.

## Decanoic acid 24.8%

"...decanoic acid, has potent anti-seizure effects. Decanoic acid acts directly on receptor proteins on the surface of brain cells that cause seizure activity<sup>1</sup>. The fatty acid also increases the number of mitochondria - cell organelles acting as the powerhouses of cells - in nerve cells, which improves cell function. These discoveries may have wider applicability in other neurological diseases<sup>2</sup>.

In collaboration with Vitaflo International Ltd, the UCLH team devised a decanoic acid-rich dietary supplement (K.Vita)....K.Vita is now approved by the Advisory Committee on Borderline Substances (ACBS) for use in adults and children with drug resistant epilepsy and will be available following its launch in October 2021. The supplement is also being tested for its effectiveness in other epilepsies and neurological conditions." University College London Hospitals

## Citronellic acid 12.8%

Citronellic acid is a monounsaturated fatty acid that is oct-6-enoic acid carrying methyl groups at positions 3 and 7. It has a role as a plant metabolite and a flavouring agent.

## 2-Decenoic acid 9%

"2-Decendioic acid is a chemical compound classified as a fatty acid and a dicarboxylic acid.

2-Decendioic acid is a constituent of honey. It is present in high concentrations in sugar-fed honey, but only in trace amounts in natural honey.[1] Quantitative evaluation of 2-decenedioic acid in honey has therefore been suggested as a method of detecting adulteration of honey." - Journal of Asia-Pacific Entomology

## Isomenthone 5.1%

Isomenthone provides a minty fragrance that helps has been reported to help with respiratory conditions.

## alpha-Copaene 2.2%

"alpha-Copaene, also known as aglaiene, belongs to the class of organic compounds known as sesquiterpenoids. These are terpenes with three consecutive isoprene units. alpha-Copaene is possibly neutral. alpha-Copaene is a spice and woody tasting compound that can be found in several food items such as lime, mandarin orange (clementine, tangerine), safflower, and summer savoury, which makes alpha-copaene a potential biomarker for the consumption of these food products"