

Luonnon raaka-aineista ihonhoitotuotteita – Lumene tarina

Argumenta-hankkeen seminaari 4.6.2014

Tiina Isohanni, innovaatio- ja tuotekehitysjohtaja, Lumene

LUMENE
FINLAND

WILD ARCTIC NATURE – REFINED BY SCIENCE

LUMENE STORY

One Foot In The Wild And One In The Laboratory

It starts in the wild, with the resilient powers of Arctic ingredients. Using scientific expertise from our pharmaceutical roots, we then introduce nature to modern technology. Add inspiration from the pure beauty of the

Finnish lake *Lummenne* and the Latin word *lumen* for “light” – and our mission is simple.

Lumene was created to combine the best of nature with the best of science to illuminate natural beauty in all.



MADE IN FINLAND

- Pharma heritage
- Arctic Ingredients
- Cleanest water in the world*
- Own innovative R&D
- Lumene products are designed and manufactured in Espoo.



* Finnish water quality is rated as number one in two different international researches. See Unesco World Water Assessment Program 2003 and World WaterCouncil 2002

WILD ARCTIC BERRIES

OUR POWER & INSPIRATION

Extreme arctic conditions & temperatures
The harsh weather conditions along with long, light nights in the summer and dark, cold winters are thought to boost production of antioxidants in the berries.

Temperature difference between day and night is also an essential factor.

Geographical variation
the further north you go, the higher the content of anthocyanins and flavonols.¹

The darker, the smaller, the better
wild arctic berries are smaller than other berries giving a high skin-to-fruit ratio.

Wild berries contain more antioxidants than the respective cultivated berries.²

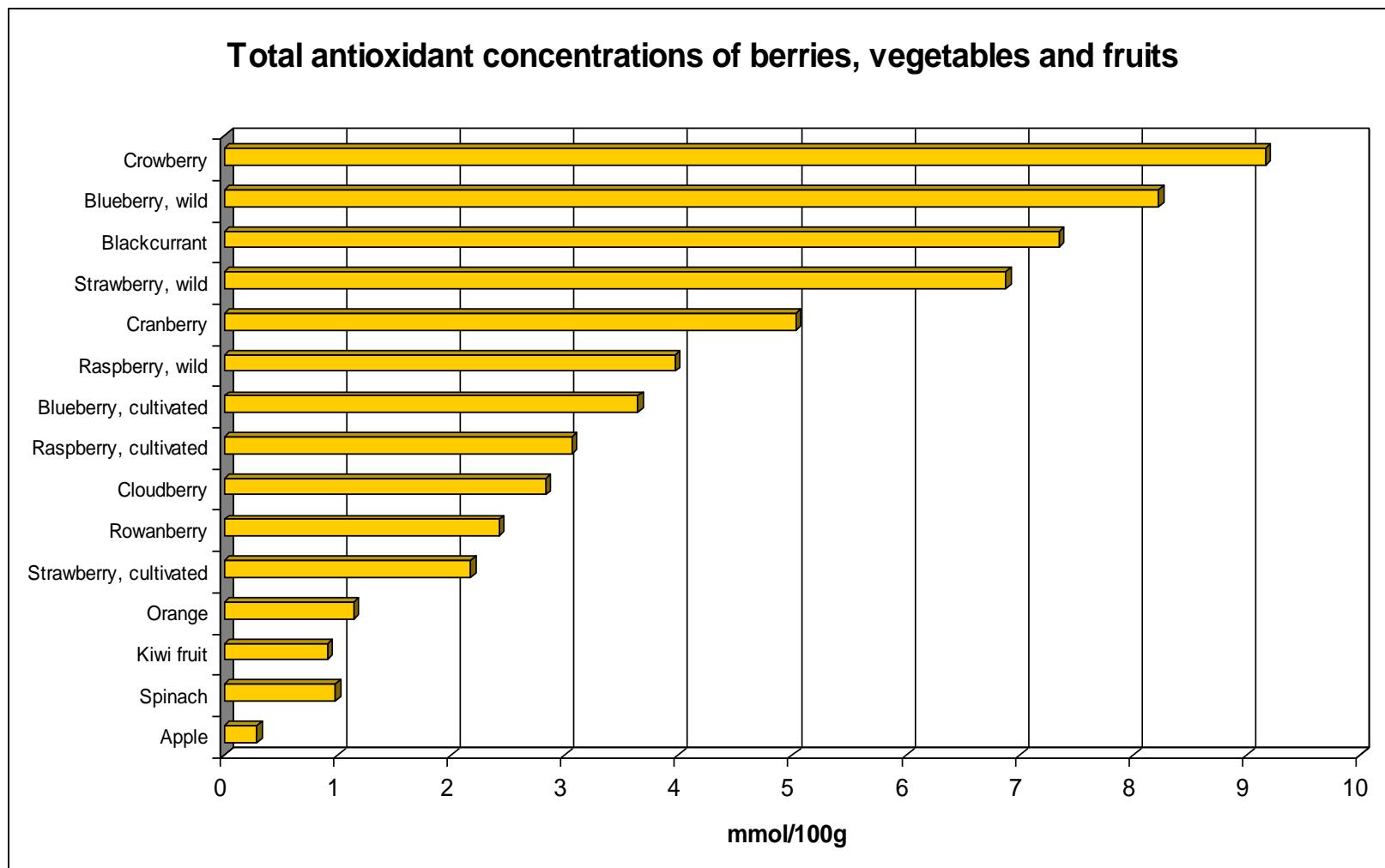


Summer night at Siilasjärvi, 11:52 PM



Sun sets in Utsjoki in November and returns mid-January

A RICH SOURCE OF ANTIOXIDANTS





1. Cloudberry is hand-picked

LAPLAND / KAINUU



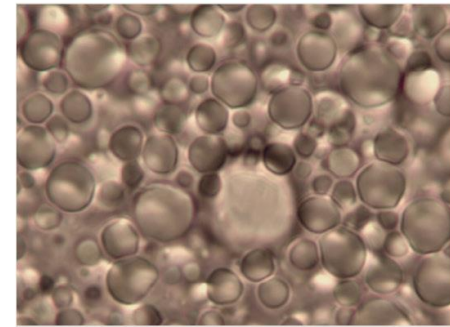
2. Cloudberry is delivered to the food industry

KUOPIO / KAINUU



3. Cloudberry is delivered for extraction

TORNIO



4. Oil- and water-soluble substances come to Lumene

ESPOO



THE JOURNEY OF CLOUDBERRY



ESPOO

5. Development and testing at Lumene



ESPOO

6. Product safety in cosmetics is tested



ESPOO

7. Lumene products are manufactured in Kauklahti, Espoo



STORES, HOME

8. A responsibly produced product with natural ingredients



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NEW POWERFUL TIME FREEZE WITH ARCTIC LINGONBERRY

Lumene R&D in co-operation with Oulu University CEMIS-Oulu Department (Biotechnology) is researching the transformation of arctic lingonberry by development of extraction process to improve anti-aging efficacy.

Cosmetic benefits of lingonberry

Bursting with bioflavonoids like **quercetin**, moisturizing properties, phenol compounds and antioxidants.

Quercetin helps to prolong skin cellular lifespan and survival and viability. Helps also to strengthen sensitive capillaries.

Vitamin C protects and brightens skin.

Cosmetic benefits of Lumene lingonberry extract

New technology enables **40 x more Quercetin** compared to lingonberry

Extremely high ORAC value

**Patent
pending**

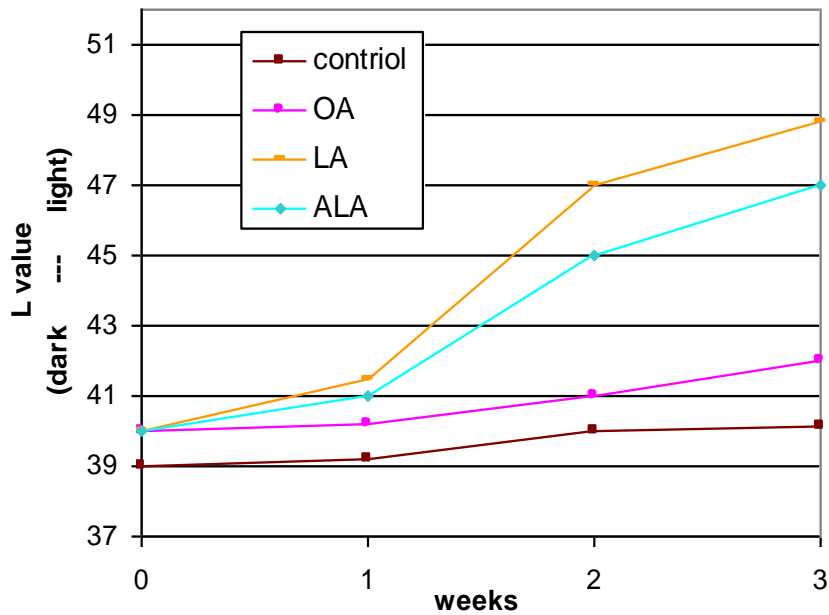


FINLAND

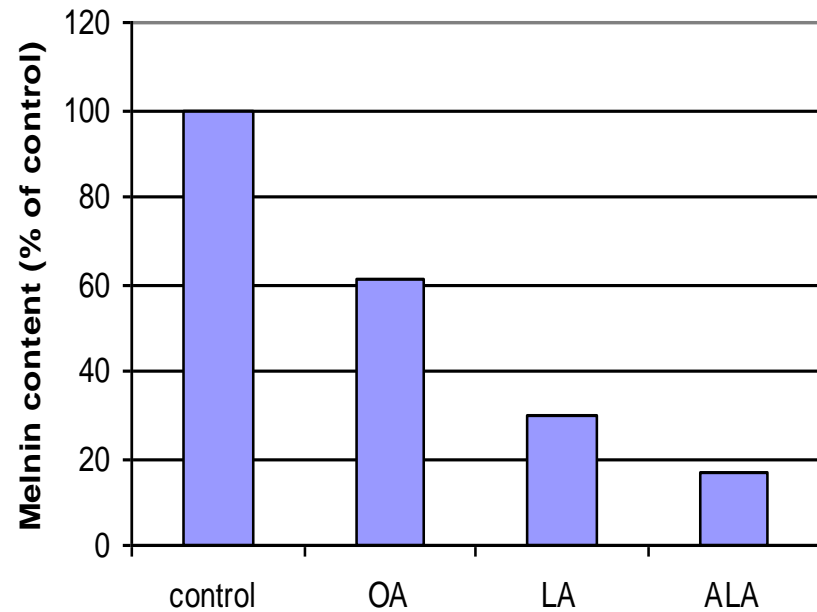
FATTY ACIDS FROM LINGONBERRY SEEDS

Skin lightening effect

Skin lightening*



Melanin content of melanoma cells cultured with different fatty acids



* Yang and Judin (2004) Supercritical CO2 extracts from peat and lingonberry: innovative natural anti-aging ingredients for skincare. Cosmetics and Toiletries 4: 7-12.

THANK YOU!

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