Blueberry NECTATM

BLUE LIGHT DEFENCE | ANTIOXIDANT

Blueberry NECTA™ is a powerful antioxidant that works as a natural shield against blue light. Thanks to its high fatty acid composition, it also supports skin's barrier function, resulting in hydrated and nourished skin.

MADE FROM

UPCYCLED BLUEBERRY SEEDS 1KG OF BLUEBERRY NECTA™
CONTAINS THE OIL OF

800,000

UPCYCLED BLUEBERRIES; A BY-PRODUCT OF THE JUICING INDUSTRY **IDEAL FOR**

SKINCARE

APPLICATIONS



Blueberry NECTATM

A POWERFUL ACTIVE FOR BLUE LIGHT DEFENCE, MADE FROM 800,000* UPCYCLED BLUEBERRIES

Blueberry seed oils contain a particularly high omega-3-6-9 fatty acid profile, providing a natural method of protection against free radical damage. Oils high in oleic acid (omega-9) permeate skin layers without disordering other fatty acids and are therefore absorbed well by the skin.

In addition to providing a method of hydration and nourishment, Blueberry NECTATM has been proven to shield the skin against blue light exposure from digital devices. It also contains beta-carotene (provitamin A), which can be linked to improving the visible signs of ageing and hyperpigmentation.
*Based on 1kg oil.

BENEFITS

- · Natural shield against blue light
- · A natural source of pro-retinol (vitamin A)
- · Contains a standardised level of carotenoids
- · Natural defence against free radical damage
- An effective emollient, leaving skin feeling soft and hydrated
- · Sustainably sourced and produced
- · Transparent, low-carbon supply chain
- Prior to cold-pressing, the waste pulp is immediately frozen to preserve the fruit's vital nutrients

A NEW APPROACH

The blueberries used to make Blueberry NECTA™ are a waste product of the juice production industry. The oil is extracted from the seeds of the waste pulp, which is upcycled into a luxurious, sustainable active.



INCI Name: Vaccinium Myrtillus Seed Oil 100%

Appearance: Light green liquid

Suggested Use Level: Unrestricted, 1 - 3%

recommended

Suggested Application: Skincare (Face & Body), Colour

Cosmetics, Lip Care

Degree of Naturality ISO 16128: NOI 1 | NI 1

COSMOS: Conforms













Blueberry NECTATM & CRUSHTM UPCYCLING PROCESS



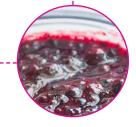


PRODUCT 1: THE JUICE

Blueberries are pressed into approx. 1.2T of juice

The pulp is dried and the seeds are separated





This creates 500kg of leftover berry pulp which would usually go to waste

PRODUCT 3: THE NECTATM

Oil is extracted from the seeds via cold pressing = 1kg Blueberry NECTATM



PRODUCT 2: THE SKINS

This process results in leftover blueberry skins (fibres) which are sold to the nutritional industry



This process results in waste seed cake.
The seed cake goes through a colour stabilisation process before being dried & ground

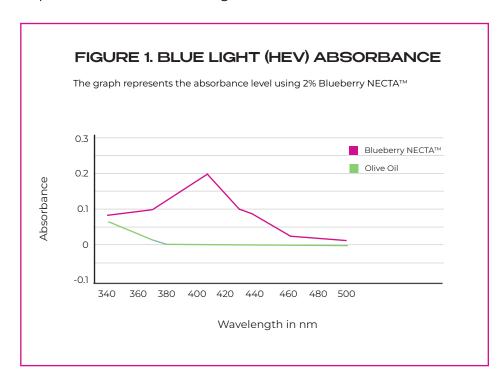


Finally, the material is sieved to size grade = 14kg Blueberry CRUSHTM

NECTA**

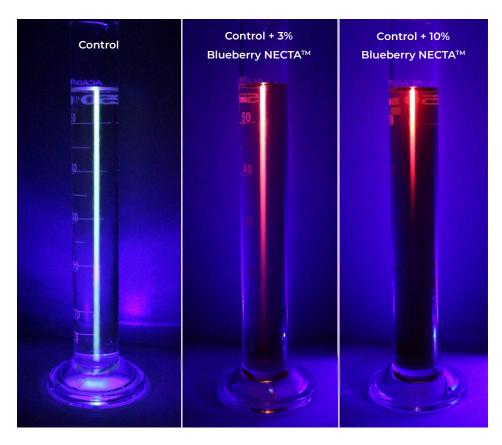
BLUE LIGHT DEFENCE

Blueberry NECTA™ has been proven to absorb blue light, working as a natural shield against HEV exposure from the sun and digital devices.



RESULTS

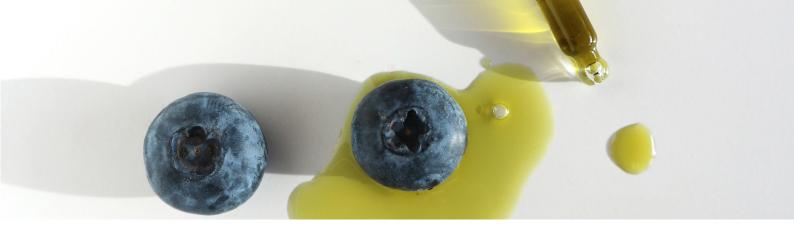
Blue light (HEV) has a wavelength of between approximately 380nm and 500nm; making it one of the shortest, highest-energy wavelengths. The peak at 410nm demonstrates the rate of HEV absorbance using 2% Blueberry NECTATM



BLUE LIGHT ABSORBANCE

When compared against a control, Blueberry NECTA™ demonstrated significant absorbance activity.



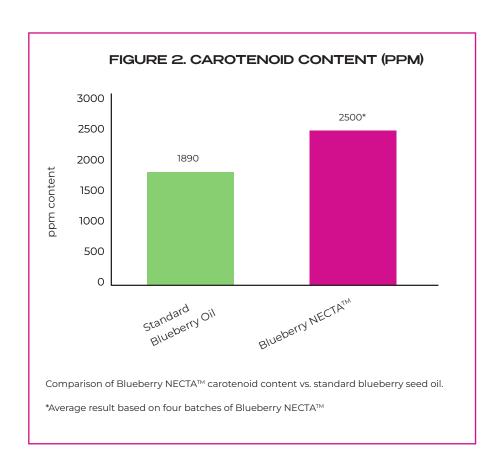


A NATURAL SOURCE OF PRO-RETINOL

Blueberry NECTA™ contains a standardised level of beta-carotene (pro-vitamin A) - a source of pro-retinol.

It contains 32% more carotenoids than standard blueberry seed oil.

Topical retinoids in general have a well-documented effect on skin health including visible improvements in fine wrinkles, skin smoothness, and hyperpigmentation of photodamaged skin.¹



SKIN-BOOSTING STEROLS

Phytosterols (referred to as plant sterol and stanol esters) are a group of naturally occurring compounds found in plant cell membranes. Phytosterol-based skincare products are known to deliver moisture to the skin, as well as softening, skin barrier strengthening, elasticity-boosting and soothing benefits.

Blueberry seed oil contains a higher level of sterol content compared with other well known seed oils derived from raspberry, strawberry, kiwi and blackberry.²





RICH IN FATTY ACIDS

Blueberry seed oil boasts a particularly high omega-3-6-9 essential fatty acid profile, delivering multiple benefits to the skin.





ALPHA-LINOLENIC ACID (OMEGA-3)

Cold-pressed blueberry seed oils have been shown to contain a high concentration of omega-3.3

- Omega-3 fatty acids help the skin retain moisture, regulate oil production, and maintain elasticity.
- Topical application of omega-3 fatty acids lessens UV-induced photodamage.

OLEIC ACID (OMEGA-9)

Blueberries have the highest amount of omega-9, compared with blackberry, raspberry, redcurrant, blackcurrant seed oil and many other fruit seed oils on the market.⁴

Oleic acid is known to permeate skin layers without disordering other fatty acids in the skin, and acts as a permeability enhancer for other compounds present in plant oils.

Oils high in oleic are absorbed well by the skin and lock in moisture incredibly well.



LINOLEIC ACID (OMEGA-6)

Linoleic acid is the most prevalent fatty acid in blueberry seed oil. Linoleic has a particular role in structural integrity and barrier function of the skin. Oils high in linoleic acid also work to nourish and protect the skin without being too heavy.

Together, omega-6 and omega-3 polyunsaturated fatty acids play a critical role in normal skin function and appearance, and are considered essential nutrients for the skin.



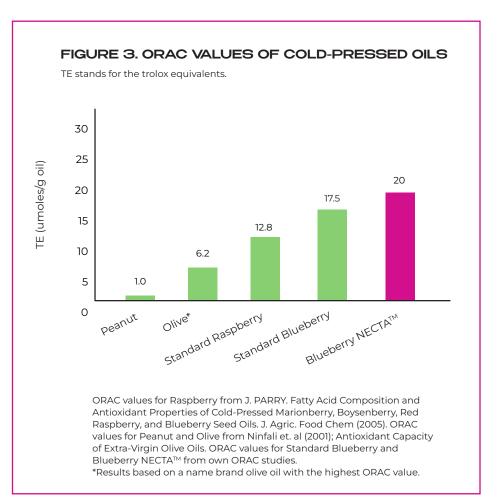
EFFICACY DATA

ORAC TEST

Blueberry NECTA™ was tested against a standard blueberry seed oil using the ORAC method, in order to measure antioxidant capacities in biological samples *in vitro*.

RESULTS

Blueberry NECTA™ has a 14% higher antioxidant capacity compared with standard blueberry seed oil. It was also shown to have a significantly higher antioxidant capacity than standard raspberry seed oil, olive oil and peanut oil.



References

^{4.} J.C. Bada et al. Characterization of Berry and Currant Seed Oils from Asturias, Spain, International Journal of Food Properties, 17:1, 77-85, DOI: 10.1080/10942912.2011.614369, 2014



^{1.} https://lpi.oregonstate.edu/mic/health-disease/skin-health/vitamin-A

^{2.} V. Van Hoed. BERRY SEEDS: A SOURCE OF SPECIALTY OILS WITH HIGH CONTENT OF BIOACTIVES AND NU-TRITIONAL VALUE. Faculty of Bioscience Engineering Ghent University Coupure Links 653, 9000 Ghent. 2008

^{3.} J. PARRY. FattyAcid Composition and Antioxidant Properties of Cold-Pressed Marionberry, Boysenberry, Red Raspberry, and Blueberry Seed Oils. J. Agric. Food Chem. 2005, 53, 566-573





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