#### **HYDRATING**





### Blueberry **NECTA®**

### BLUE LIGHT DEFENCE | HYDRATING

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.



#### **BLUE LIGHT DEFENCE**









### Blueberry **NECTA®**

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 NECTA® has been proven to shield the skin against blue light exposure from digital devices. It also contains beta-carotene (pro-vitamin 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 oil.

No new materials created. No existing resources wasted.



**INCI Name:** Vaccinium Myrtillus Seed Oil (100%)

Plant Part: Seed

Country of Origin: Poland, Serbia, Canada,

USA, Chile

Method of Extraction: Cold pressing Appearance: Clear, light green liquid

Suggested Use Levels: 1 - 3%

Suggested Application: Skincare, body care

Natural: Conforms with ISO 16128

**BDIH:** Certifiable

Soil Association: Certifiable **Ecocert:** Conforms (Natural)

Preservatives: None Solvents Used: None

Water/Glycerine/MPG: Non-soluble

Ethanol: Miscible







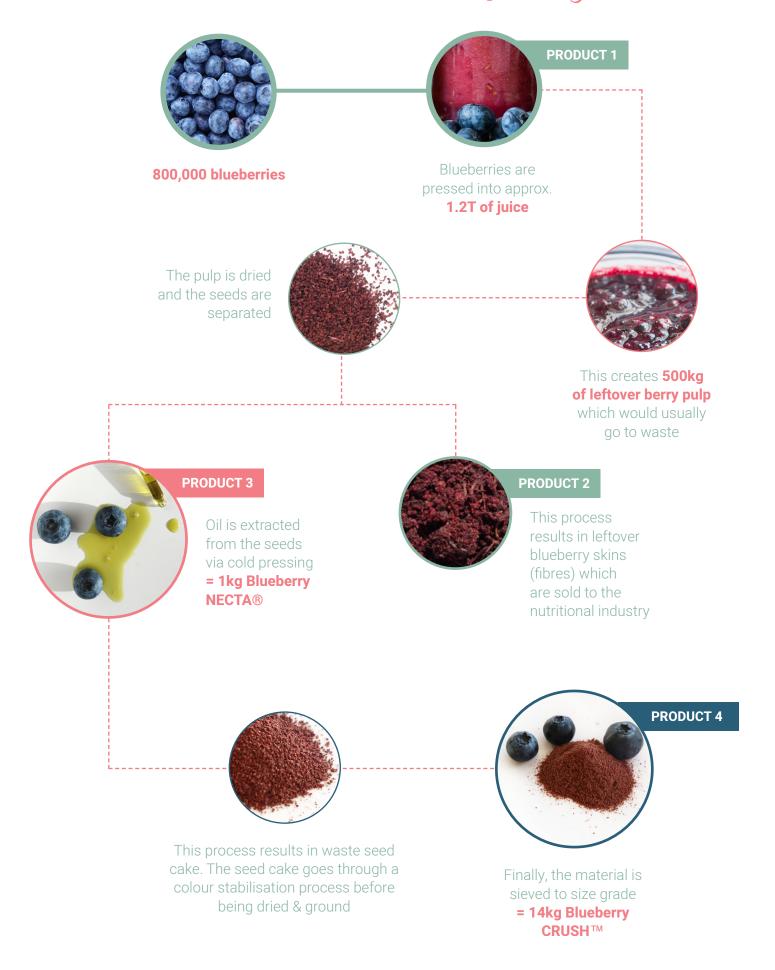








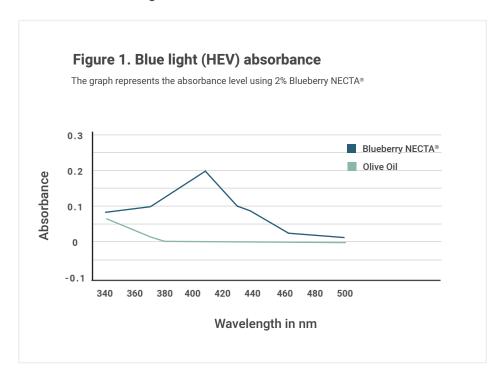
### BLUEBERRY **NECTA® & CRUSH™ upeyeling** PROCESS





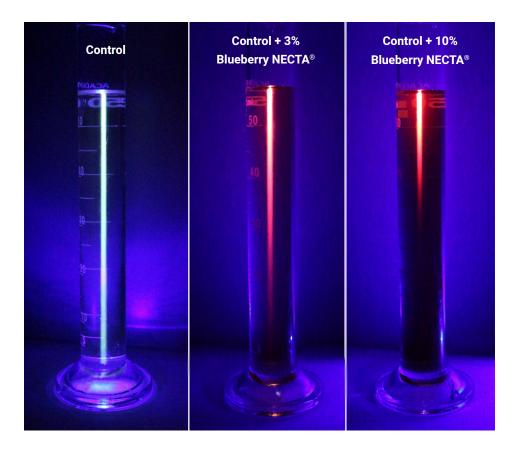
# Blue Light DEFENCE

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



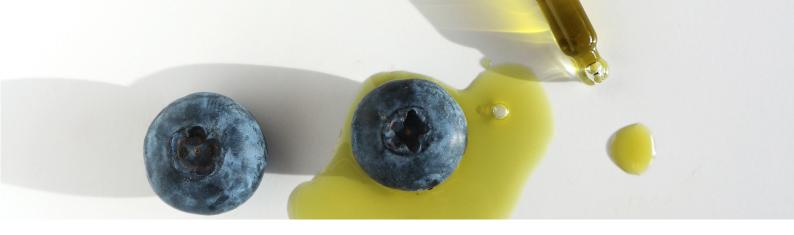
#### **RESULTS**

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 NECTA®



### **BLUE LIGHT ABSORBANCE**

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

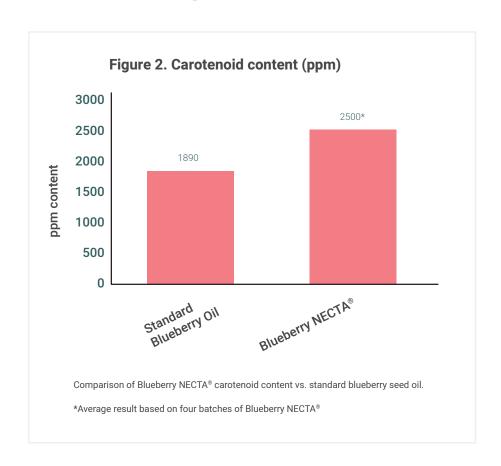


### A NATURAL SOURCE OF Properties

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

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.<sup>1</sup>



### SKIN-BOOSTING Stehols

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.<sup>2</sup>



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

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### 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.<sup>4</sup>

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.

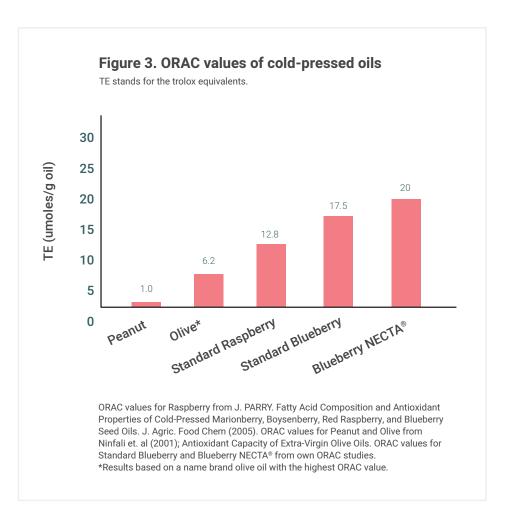


#### **ORAC TEST**

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.







### **ABOUT FULL CIRCLE**

Full circle is a portfolio of upcycled cosmetic ingredients made from plant-based leftovers too good to waste.



## THE FULL CIRCLE RANGE OF INGREDIENTS IS PART OF



The Upcycled Beauty
Company empowers
cosmetic & personal care
brands to reduce and reuse
waste by growing the
upcycled beauty movement.

Our vision is that one day, every beauty & personal care product will be made from upcycled materials - from ingredients to packaging.

Find out more: upcycledbeauty.com

#### References

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