HARKE
Home
&
PersonalCare

SkinCare

Newsletter PersonalCare 1/2023

maxBerry Oil SC – our star in the innovation zone at in-cosmetics® in Barcelona

March 2023

Bilberry Seed Oil SC – Natural Source of Valuable

This oil manufactured from wild bilberry seeds that contains essential fatty acids, namely linoleic acid (LA) and linolenic acid. It contains PUFA 8Poly Unsaturated Fatty Acids) up to more than 60%.

Interested in our all-round newcomer for in-cosmetics® global in Barcelona on March 28th-30th? Also visit our booth G30.

Content

Vaccinium Myrtillus L.

Vaccinium Myrtillus L. is a small shrub growing in Latvian, so as Northern Europe forests. It is a wild European plant and is not cultivated, but collected with hands to avoid mechanical damage.

Bilberry is a medicinal plant described in Eu.Ph. as well as in EMA monographs. Bilberries may be completely upcycled. Not only valuable juice is manufactured from it. Bilberries are the source of anthocyanidins extracted from the pulp and fruit skin. The seeds of the berries contain essential fatty acids, namely linoleic acid (LA) and a-linolenic acid (ALA) also known as PUFA (Poly Unsaturated Fatty Acids) up to more than 60%. The seeds contain a broad range of unsaturated fatty acids and are a great source of that (essential PUFA): omega-3 and omega-6 and of oleic acid. These classes of fatty acids are of high importance.

maxBerry SC Fatty Acids Profile

Fatty acid name	Specification, %
Content of fatty acids	96-99
Miristic acid (C14:0)	<0.1
Palmitic acid (C16:0)	4-6
Palmitoleic acid (C16:1)	<0.2
Stearic acid (C18:0)	<1
Oleic acid (C18:1) n-9	20-23
Linoleic acid (C18:2) n-6	**35-40**
Alpha-linolenic acid (C18:3) n-3	**30-35**

Manufacturing Process Description

Juice → pulp → separation of seeds → SCFE → oil

Application

Omega-3 fatty acids are considered to be essential nutrients, and most of our dietary omega-3s tend to be in the form of ALA. PUFA oils are valuable for inner and topical application. Linoleic acid functions as a structural component is to maintain a certain level of membrane fluidity of the trans-dermal water barrier of the epidermis. Linoleic acid (LA) is required for the normal growth and development at 1 to 2% of daily energy.

Description

Trade name: maxBerry Oil SC
INCI: Vaccinium Myrtillus Seed Oil
Appearance: Dark green coloured oily liquid
Solubility: oil soluble
Recommended dosage: 1-10% in cosmetics

Use in Cosmetic Formulations

- **It helps to improve hydration and skin barrier functionality.**
- **It promotes the anti-inflammatory effect.**
- **It contains sebum-like essential fatty acids forming a protective barrier from external agents.**
- **It is useful for skin barrier function improvement.**
- **It helps to repair the epidermal skin barrier and skin barrier recovery.**
- **It is helpful for treatment of psoriasis or eczema and skin erythema.**
- **It promotes to balance the skin microbiome.**

Bilberry oil is useful in hair care cosmetics where it promotes damaged hair permeability and porosity recovery, linked to a lower fragility of the hair fiber. It works as an emollient and soothing active ingredient. The oil may be recommended in baby care products. Sensitive skin targeting products, day creams (radiance), night creams (nourishing), chronically irritated skin repairing lotions, baby care, dry skin, adjuvant treatment in specific skin conditions, hair protection shampoos and rinse off/leave on conditioners and hair masks – all these cosmetics may increase its value thanks to use of the maxBerry oil SC as its ingredient.

Dosage	INCI	CAS No.
1-10%	Vaccinium Myrtillus Seed Oil	84082-34-8

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Imprint

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