

NEW

## Saskatoon Berry

*Amelanchier alnifolia*

Skin Care  
Hair Care

### The Canadian Power-Berry

Found in the western prairies of Canada, Saskatoon Berries are a perfect example of a trending superfood. The purple blue berries are rich in vitamins, minerals and flavonoids. Their anti-oxidant properties have been proven in various studies and are superior to plenty of other fruits.

Already the Cree, one of the largest groups of Native Americans, took full advantage of the most popular and widely used fruit. During winter time, the berries were an important source of food and provide essential nutritions during this hard time.



## Botanical Name

*Amelanchier alnifolia*

## Family

Rosaceae

## Name

Saskatoon (EN, FR)  
Erlen-Felsenbirne (DE)

## Alternative Names

Juneberry, Shadberry,  
Serviceberry, Sugar  
pear, Indian pear

## Properties

Antioxidant  
Anti-inflammatory



## Our expertise

Lipoid Kosmetik combines more than 40 years of experience in the manufacture of botanical extracts with a unique botanical and biochemical expertise. This includes:

- Extensive sourcing for all kinds of raw materials
- Unique extraction process
- Traceability from the plant to the final product

## Our technology

Focusing on the active molecule of the plants, our extraction process is designed to maintain the phytochemical composition of the plants and to guarantee high quality and consistency. This is achieved with our proprietary extraction technology:

- Cold extraction with a unique combination of extremely mild maceration and percolation techniques
- Active molecules such as flavonoids and polyphenols can be isolated without thermal degradation
- A very high Drug-Solvent-Ratio (DSR). In most products, 1 kg extract is equal to 0.5-1 kg fresh plant

## Habitat

Saskatoon Berries can be found in wild open woods of western Canada and northern US states. They grow on small, deciduous shrubs that are perfectly adapted to the harsh environmental conditions (strong wind, cold temperatures) of the northern prairies.

## Super Fruit

Compared to other fruits, Saskatoon Berries contain a superior amount of antioxidants which is why Saskatoon is referred to as a super fruit. The berries are also rich in vitamins (riboflavin, vitamin A and C, folate, biotin), minerals (iron, manganese, potassium), phenolic acids, anthocyanins, flavonoids and hydroxycinnamic acids [1,3].

## Energy Berries

Saskatoon is derived from the word "mis-sask-quah-too-mina" which means wild berry in the aboriginal language of the Cree, the most popular and widely distributed native people of Western Canada. Also the first settlers used the berries as a life-saving medicine and food. Mixed with buffalo meat and fat, the fruit became the first energy bar when Europeans came to trade Saskatoon.

## Properties

The multitude of compounds and activities of Saskatoon Berries have extensively been described in scientific literature.

### Components

Saskatoon Berries contain phenolic acids including 3-feruloylquinic, chlorogenic, and 5-feruloylquinic acids [1]. They are especially rich in anthocyanins and flavonoid compounds, including rutin, hyperoside, avicularin and quercetin [1]. Anthocyanins and proanthocyanidins have been associated with antioxidant, anti-inflammatory, anti-adhesion and anti-cancer properties.

### Antioxidant Activity

Saskatoon Berries have higher levels of antioxidants compared to the more common berries such as wild blueberries, strawberries and raspberries [1,3]. Saskatoon Berry extracts suppressed peroxy-radical intracellular oxidation [1]. The high radical scavenging activity was significantly linked to the presence of anthocyanins.

### Anti-Inflammatory Activities

Saskatoon Berry anthocyanins caused significant counter-activity in inflammatory processes due to COX-2 and COX-1 inhibition [1].

Extracts of Saskatoon Berries inhibited nitric oxide production in activated macrophages, indicating a potential protective role against cardiovascular and chronic inflammation [1].

## Products

410052.35.2 **Saskatoon Berry Herbasol® Extract PG unpreserved, System 3**  
INCI: Propylene Glycol, Aqua (Water), Amelanchier Alnifolia Fruit Extract

410053.116.2 **Saskatoon Berry Herbasol® Extract Glycerin SB**  
INCI: Aqua (Water), Glycerin, Amelanchier Alnifolia Fruit Extract, Sodium Benzoate, Potassium Sorbate, Citric Acid

Herbasol® Extracts are available in various solvent systems such as PG, Glycerine, IPM, IPA, distillates, vinegars, preserved and unpreserved or customized versions. Most of our plant extracts are also available as a Herbamilk® o/w emulsion or as a Herbaspheres™. For further information and development requests, please contact our customer service.

## Regulatory and Safety

Origin	Canada, Prairie Provinces
INCI of the plant material	Amelanchier Alnifolia Fruit Extract
Safety	The fruit of Amelanchier alnifolia is common food and its components are well known and documented. The products as developed contain no additives.
EU Cosmetic Regulation	The products comply to the EU Cosmetic Regulation (EC) No 1223/2009.
Natural/organic	Depending on the solvent system, the products can be used in Ecocert/COSMOS-certified formulations.
ABS	The plant material used complies with the requirements of Access and Benefit Sharing (ABS) as derived from the Nagoya Protocol and its corresponding national legislations.
EU Reach	The products, i.e. their substances, conform to Regulation (EC) No 1907/2006.
China Reach	The products as developed, i.e. their substances, conform to the legislation of China REACH.
China INCI	There is currently no China INCI name for Amelanchier Alnifolia Fruit Extract available.
Halal	The products as developed conform to Halal requirements.

Please note, that the statements given above are only condensed versions. Please contact us for information that is more detailed. Comprehensive documentation is available, including the solvent system or carrier chosen.

## Literature

[1] Jurikova et al., Flavonoid Profile of Saskatoon Berries (*Amelanchier alnifolia*Nutt.) and Their Health Promoting Effects, *Molecules* 2013, 18, 12571-12586

[2] Ruiqi Li et al., Phenolics and Antioxidant Activity of Saskatoon Berry (*Amelanchier alnifolia*) Pomace Extract, *JOURNAL OF MEDICINAL FOOD J Med Food*17 (3) 2014, 384–392

[3] Farah et al., Saskatoon and Wild Blueberries Have Higher Anthocyanin Contents than Other Manitoba Berries *J. Agric. Food Chem.* 2007, 55, 10832–10838

**Disclaimer:** All data and recommendations made herein are based on our present state of knowledge. We disclaim any liability on risks that may result from the use of our products, including improper and illicit use. Product properties identified and highlighted by specific tests or studies are to be interpreted in the context of the test/study conditions only. The listed properties of products without claim data have been sourced from literature and should be used as value-added information only. Please be aware that the use of any claim on cosmetic products is the sole responsibility of the customer and is regulated by your local Regulatory Body..