

TECHNICAL DATA SHEET

Blueberry Fruit Powder

Product Name: Blueberry Fruit Powder 10:1

INCI Name: *Blueberry Fruit Extract*

CAS No.: 84082-34-8

Botanical Name: *Vaccinium angustifolium* (Blueberry)

Synonyms: Bilberry Extract, Extract of Whortleberry, Myrtocyan

Product Quality:

This product is standardized to a **10:1 concentration ratio**, meaning that ten parts of botanical raw material are used to produce one part of the final extract. This ratio reflects the extract's increased concentration and potency.

Country of Origin: China

Description:

Blueberry Fruit Powder is produced by freeze-drying whole blueberry fruits followed by fine milling into a uniform powder. During the freeze-drying (lyophilization) process, the berries are first frozen and then subjected to a vacuum, allowing water to transition directly from the solid state to vapor without passing through the liquid phase. This gentle process preserves the fruit's natural structure, color, aroma, flavor, and valuable bioactive compounds.

The resulting powder possesses a fine texture and high purity while maintaining the natural chemical profile of fresh blueberries.

Its primary cosmetic value lies in its high concentration of **polyphenols**, particularly **anthocyanins**, which are powerful natural antioxidants. These compounds help neutralize free radicals, protecting the skin from oxidative stress and reducing the visible signs of premature aging.

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Blueberry powder also naturally contains **vitamins C and E**, which further support the skin's protective barrier, stimulate collagen synthesis, and promote a brighter, more even complexion.

Naturally occurring fruit acids provide gentle exfoliating properties by helping remove dead skin cells, improving skin smoothness and radiance. For this reason, Blueberry Fruit Powder is commonly incorporated into facial masks, exfoliating products, cleansers, and revitalizing skincare treatments.

Its mild **astringent properties** help tighten the skin and minimize the appearance of enlarged pores, making it particularly beneficial for oily and combination skin, while also improving firmness and tone in mature skin.

Natural flavonoids and tannins contribute soothing properties that help calm mild redness and skin irritation, making the ingredient suitable for sensitive skin formulations.

In addition to its skincare benefits, Blueberry Fruit Powder functions as a natural botanical colorant, imparting a delicate purple to pinkish-purple hue that enhances the visual appeal of cosmetic products.

It is widely used in facial masks, exfoliating treatments, handmade soaps, bath products, and other natural cosmetic formulations.

Benefits:

- Provides powerful antioxidant protection by neutralizing free radicals.
- Helps reduce the visible signs of premature skin aging.
- Supports collagen production and improves skin firmness.
- Promotes a brighter, more even-looking complexion.
- Gently exfoliates dead skin cells for smoother, healthier-looking skin.
- Helps tighten the skin and minimize the appearance of pores.
- Soothes mild redness and skin irritation.
- Imparts a natural purple botanical color to cosmetic formulations.
- Rich in naturally occurring polyphenols, anthocyanins, vitamins, and flavonoids.
- Suitable for revitalizing, anti-aging, and antioxidant skincare products.

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Directions for Use:

Blueberry Fruit Powder is commonly used for the preparation of **water-glycerin extracts, glycerites, tinctures, and other cosmetic intermediates**. It may also be incorporated into facial masks, exfoliating scrubs, soaps, bath products, creams, lotions, and other skincare formulations.

Typical recommended use levels range from **1% to 10%**, depending on the desired antioxidant activity, botanical content, and color intensity.

Storage and Shelf Life:

Store in a cool, dry place protected from moisture and direct sunlight. Under recommended storage conditions, the product has a **shelf life of 2 years**.

Animal Testing:

This ingredient has **not been tested on animals**.

GMO Status:

Non-GMO.

Vegan:

Contains no ingredients of animal origin.