

# **ACTUAL ASPECTS OF DEVELOPMENT IN THE CONTEXT OF GLOBALIZATION**

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TECHNOLOGIES

**PROSPECTS FOR THE USE OF *TARACCSACUM OFFICINALE* WHEY EXTRACT IN THE COSMETIC INDUSTRY**

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Nowadays, the cosmetic industry is undergoing a transformation. The healthy lifestyle popularization, a balanced and healthy diet, and an attentive attitude to our body has made humanity more responsible with regard to the choice of products with a direct impact on the human body.

Cosmetology is developing rapidly, mastering every year more and more new methods of dealing with aesthetic problems and defects in appearance. The leading role in this development belongs to natural cosmetics, the products of which are manufactured from high-quality natural raw materials undergoing safe processing. It is natural cosmetics that is positioned as the idea of the future [1].

Herbal and essential oils, tinctures, extracts and other natural ingredients used in cosmetics are rich in vitamins, minerals, antioxidants, acids and other useful plant components and have a paramount role in maintaining youth and healthy skin [2].

*Taraxacum officinale* dandelion is one of the best ingredients in natural cosmetics, called the "elixir of life." An analysis of literature sources showed that this plant has a unique chemical composition, its derived products have therapeutic and prophylactic properties, and the presence of biologically active substances determines the widespread application of dandelion constituents when creating of cosmetic products [3, 4].

In most cases, dandelion is used as an aqueous extract in the cosmetics industry. However, recently much attention has been paid to the most complete use of secondary bioresources, which are a source of valuable biologically active substances, including high-grade proteins and minerals. Therefore, it seems very promising to use curd whey as an extractant to create a new type of extract of therapeutic and cosmetic orientation made from dandelion.

Obtaining whey extract allows combining biologically active substances isolated from a medicinal plant, and useful curd whey components. This will not only

maximize the application of the raw material base in the dairy industry, but also expand the range of cosmetic products, as well as minimize waste and energy losses.

Dandelion extract based on curd whey is a concentrated liquid extract of light brown color with a bitter aftertaste and milky odor.

Whey extract contains casein; whey proteins, which can serve as an additional source of arginine, histidine, methionine, lysine, threonine, tryptophan and leucine; lactose, taraxacin, sterols, phenol compounds, flavonoids, sucrose, proteins, carotene, tannins, inulin, choline, nicotinic acid, ascorbic acid, alcohols, saponins, resins, wax, rubber, carotenoids, traces of essential oil, fatty oil containing traces of organic acids - oleanolic, palmitic, linoleic, melissic and cerotic; free organic acids; vitamins (A, C, B1, B2, B3 (PP), B4, B5, B6, B9 and B12); macroelements (K, Ca, Mg, Na, S, Ph, Cl) and trace nutrients (Fe, I, Co, Mn, Cu, Mo, Se, Zn, Cr, Al, Ba, V, Se, Ni, Sr, Pb, I, Br, B) [5, 6, 7].

Dandelion whey extract can be widely used in face and body care cosmetics. The extract has tonic properties, regulates acid balance, refreshes the skin, has a calming effect, and relieves inflammation, irritation and itching.

The presence of vitamins and minerals improves complexion, naturally moisturizes and increases skin elasticity, stimulating collagen production, relieves inflammation, prevents acne and protects the skin from ultraviolet radiation.

The availability of useful proteins in the whey extract, which able to improve the cellular renewal and cell growth process, allows using this substance as a regenerating and antioxidant one, significantly slowing down the aging process of the body.

Possessing a detoxifying effect, the dandelion whey extract promotes deep cleansing and proper functioning of the skin. This opens up wide possibilities for using dandelion extract in detox cosmetics, which is recently becomes more and more popular.

Dandelion whey extract, due to the lactic acid contained in it, has a whitening effect and eliminates hyperpigmentation, can be applied to lighten freckles, treat spots and other skin defects. Citric acid possesses a healing effect and narrows excessively enlarged pores.

Dandelion whey extract based cosmetics also helps in hair care – it provides them with nutrition, protection and hydration, strengthens them, makes them smoother and more obedient, has a refreshing, soothing effect on the skin, relieves irritation and itching, strengthens roots, helps with dandruff, improves hair structure.

Due to its properties, dandelion whey extract can be introduced into such cosmetic products as anti-pigment creams; whitening creams/lotions; fortifying makeup remover milk; cleansing lotions; anti-aging cosmetics; detox cosmetics; acne/comedones remedies; organic massage oils; soap; shower gels; masks to remove toxins and reduce inflammation; hair / body sprays; bath compositions; shampoos for oily hair; balms for dry and split ends; remedies against nail peeling; remedies for removing hardened patches of skin and corns, etc.

The results obtained indicate as follows: the curd whey based dandelion extract is an affordable unconventional raw material that possesses useful properties and can be incorporated into cosmetics used to maintain healthy and youthful-looking skin.

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