

Cosmetics containing humic acid and application of humic acid in cosmetics

Abstract

The invention discloses cosmetics containing humic acid and application of humic acid in cosmetics, which comprises skin caring or hair caring articles and humic acid, wherein the humic acid is one or mixture from yellow humic acid, hymatomalenic acid, and black humic acid.

CN1568929A

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2003 [CN](#)

Application CN 03132503 events ⓘ

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Claims (4)

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1. cosmetics that contain humic acids, its composition comprises: skin protection or hair care articles is characterized in that: per hundred parts of weight of described skin protection or hair care articles cooperate with the humic acids of 6-30 parts by weight.
2. the cosmetics that contain humic acids according to claim 1 is characterized in that: humic acids is a kind of in yellow humic acid, hymatomalenic acid, the pyrotomalenic acid or several mixture.
3. the cosmetics that contain humic acids according to claim 1 and 2 is characterized in that: described humic acids is yellow humic acid and/or hymatomalenic acid and/or pyrotomalenic acid, and it is (1-10) that mixture can adopt ratio of weight and number: (1-10): (1-10).
4. the application of humic acids aspect the making cosmetics.

Description

Contain the cosmetics and the application of humic acids aspect cosmetics of humic acids

Technical field: the present invention relates to a kind of cosmetics and the application of humic acids aspect cosmetics that contains humic acids.

Background technology: existing humic acids is mainly used in agricultural at present, as fertilizer or the growth promoter of plant, does not see and is used for cosmetics, especially for the report of functional cosmetics.

Summary of the invention: the purpose of this invention is to provide a kind of cosmetics and the application of humic acids aspect cosmetics that contains humic acids, improve the bodily fuctions, improve immunity, effectively prevent viral infection.

Above-mentioned purpose realizes by following technical scheme:

The cosmetics that contain humic acids, its composition comprises: skin protection or hair care articles, per hundred parts of weight of described skin protection or hair care articles cooperate with the humic acids of 6-30 parts by weight.

The above-mentioned cosmetics that contain humic acids, humic acids are a kind of in yellow humic acid, hymatomalenic acid, the pyrotomalenic acid or several mixture.

The above-mentioned cosmetics that contain humic acids, described humic acids are yellow humic acid and/or hymatomalenic acid and/or pyrotomalenic acid, and it is (1-10) that mixture can adopt ratio of weight and number: (1-10): (1-10).

The application of a kind of humic acids aspect the making cosmetics

This technical scheme has following beneficial effect:

1. containing in the present known humic acids molecule has bridged bond etc. to link to each other between each aromatic ring of phenyl ring, condensed ring and some heterocycle (as pyrroles, furan, indole etc.). Various functional genes are arranged on the aromatic ring, mainly are hydroxyl, phenolic hydroxyl group, methoxyl group, quinonyl etc. Because humic acids has the molecular structure of complexity like this, therefore show multiple physicochemical characteristics. For example,, in certain medium, also can associate bigger particle, therefore have colloid property and absorability because the molecular weight of humic acids own is bigger; Many hydroxyls and phenolic hydroxyl group are arranged on the humic acids molecule, therefore have faintly acid, have stronger ion-exchange capacity, Eriochair sinensis to close ability

and buffering ability; The phenol of humic acids molecule, quinone structure can participate in the electron transport system of biological oxidation. These physicochemical characteristics have influenced the function of biomacromolecule from every side, thereby physiology and pharmacologically active occur.

Mostly the humic acids that this product uses is to catch from peat, weathered coal, brown coal gets, and purified and a class macromolecule organic monoacid. Molecular weight ranges is 200-400. Big or small different according to molecule with solubility property, divide Three Estate usually, promptly fulvic acid (divided the most less, can soluble in water), (molecule descends than fatty acid concentration ulmic acid).

Result of the test proof humic acids has the promotion estrogen secretion, improves the epithelium metabolic function, functions such as activation adrenal cortex function and the secretion of inhibition hyperglycemia.

2.2, this product is to the influence of tissue growth

The test of a, external and skin healing

Second degree burn is coated with behind the humic acid solution, the wound surface drying, oozes out minimizing, and pain obviously alleviates, and incrustation is fast, and infection rate is low, new granulation tissue's well-grown, and healing stage obviously shortens. The no scar wave in humic acids treatment healing back. Evidence card 116 examples are scalded the patient and are coated with compound recipe humic acid solution (humic acids adds the food in one's mouth Xilin of barking). 1 degree burn 3 days, 11 degree burns 5 ~ 8 days, the recovery from illness in 13 days of 111 degree burns; Oozed out in 24 hours after the medication and stop, painless substantially, infection rate 20.7%. The matched group of simple wrapping or exposure, 1 degree 4 days, 11 degree 10 ~ 16 days, 26 days complete healing of 111 degree; 3 talents stop seepage, infection rate 40.3%.

In 33 exception sections infect, to wound surface external humic acid solution. Observe the proof humic acids and obviously reduce seepage, ease the pain, control infection, and catch into granulation tissue growth. Curative effect is better than topical antibiotic and sulfanilamide. Good through humic acids soak treatment eczematous dermatitis patient evidence constringency performance, and to the skin nonirritant, effective percentage 96%. Humic acids is a kind of effective Wet-dressing agent for this reason, is ideal functional health product. Prove through 27 routine verruca plana patients: external add humic acids for oral administration (skin lesion extensively or the satisfied inadequately person of curative effect add use drug administration by injection) recovery from illness 22 examples (81.5%) fully recovered in .10-40 days, except that the skin drying, did not find other side effect. Through to 49 routine skin ulcer thinkings, after Western medicine and surgery expansion is in use created and being failed to respond to any medical treatment, add humic acids and soak and the external application affected part, 12 examples of fully recovering (24.5%), effective 25 examples (48.8), the responder shows as ulcer surface and dwindles and shoal, no secretions, the clean fresh trend healing of granulation. It is fast that result of the test proof humic acids has a healing to skin, do not have and infect, and promotes the skin histology growth, and characteristics such as have no side effect are ideal functional health product and skin care item.

2.3, contain the influence of this product of humic acids to circulatory function

Use the microvascular blood flow velocity automatic measurement system and study lame phytic acid: after dripping norepinephrine earlier, mouth warp, flow velocity and the flow of blood capillary all are zero; Arteriolar mean flow rate and bore also have only normal half; The spasm of venule is lighter than arteriole. Contain this product of humic acids in use after, can resist the effect that the noradrenaline index rises rapidly, the arteriole spasm is removed, and flow velocity is obviously accelerated, blood flow increases; Effect to blood capillary is remarkable equally.

Experimental result proves, this product that contains humic acids plays the function of microcirculation improvement to people's physical ability, and is big, and is water insoluble but be dissolved in alkaliferous aqueous solution and ethanol, acetone), (molecular weight is bigger, is dissolved in the alkaliferous water for humic acid. This product will be opened up a brand-new field as humic acids in the application aspect the beauty and skin care.

Detailed narration humic acids are used for the effect that beauty and skin care and hair care aspect are played below 2.

2.1. this product is to the influence of endocrine function

Experiment shows that this product can make adrenal gland's weight obviously increase, and anti-base hematic acid content obviously reduces and atrophy of thymus gland, points out it to have the effect that promotes adrenal cortex function. Observe sexual cycle as leading indicator with the mouse tissue smear, the sharp histology's metamorphosis of its weight is discovered as auxiliary characteristics: this product all shows the effect of obvious estrogen sample to keeping ovary and removal ovary. When having ovarian function to exist, owing to use the estrogen action of this product generation and the estrogen of ovarian secretion that synergism is arranged.

Experiment showed, humic acids drug administration by injection in the rat body, can obviously suppress thyroid suction iodine function (for matched group 1/8); Long-term successive administration also has no drug resistance. Through observe finding, most of specimen folliculus is static and resembles, colloid is grown and stayed, and iodate Elityran content obviously reduces in the folliculus, and the thyroid peroxidase activity increases. Thyroid transplantation in health has promoted innervation, and this product has similar effect. It was not nervous system that this product suppresses thyroid suction iodine function, but played a role by the body fluid approach.

In vitro the humic acids of 5mg can and the iodine complete reaction of 7ml, make the indicator invariant color, humic acids in this product is by skin absorbs and iodine generation addition or substitution reaction, make thyroid iodine under-supply, reduce and cause Elityran to close face, it is active for function that peroxidase activity increases sharp follicular epithelium.

With thyroid powder cause the rat hyperthyroidism will starch with blood in the CAMP level raise; It is low to make first with propylthiouracil, reduces with CAMP level in the blood plasma, uses this product after two weeks, and two treated animals are when alleviating the low symptom of hyperthyroidism or first, and the CAMP level is also adjusted in the blood plasma, returns to normal level. Therefore this product that contains humic acids has the effect of regulating thyroid function and regulating the CAMP level.

With the evidence of streptomycin selective destruction islet cells, it has caused the mice diabetes model. The intramuscular injection humic acids can make blood glucose response reduce more than 50%. The proof humic acids has the effect of protection islet cells. By immunodepression, for example give antilymphocyte serum, give adrenocortical hormone, can protect islet cells. Assert that for this reason humic acids is by suppression of autoimmune responses, the activation adrenal cortex function, or strengthen directly that islet cell function plays a role.

This product can reduce free fatty acid concentration in the rabbit plasma, and dose-dependence is arranged. This effect is not blocked by atropic is sweet, changes without islets of langerhans rope level yet, not influenced by gains in depth of comprehension, just can be resisted by receptor blocking agent. Prove that for this reason this product can cause freedom and can accelerate blood flow and significantly oxygen supply effect by excited receptor thereby glucagon suppression secretion.

2.4, antiinflammatory action

Prove that through result of the test this product that contains humic acids has antiinflammatory action, rat Ovum Gallus domesticus album, formaldehyde swelling are had the obvious anti-inflammatory and anti effect; The leukoplania that injection carboxymethyl cellulose rope in the subcutaneous air bag is led to: growth all has obvious inhibitory action to the cotton balls granulation tissue, thereby shows that this product of containing humic acids all has antiinflammatory to do friend to the phase of oozing out and the propagation phase of inflammation. Because humic acids has 8% analgesia rate, ED50=8.9/kg to the acetic acid writhing test. Heating rabbit to triple vaccine causes has the obvious cooling effect. The common pharmacological property of antiinflammatory, the black body anti-inflammatory agents of the right and wrong of bringing down a fever, ease pain (NSAID). The fragrant organic monoacid of the also many genus of the chemical constitution of NSAID. In view of also belonging to fragrant organic monoacid on the chemical constitution of humic acids, therefore has antiinflammatory action.

In addition about studies have shown that exudative and proliferative inflammatory model also has antiinflammatory action to this product that contains humic acids to animal. With the swelling of rat formaldehyde is index, has compared the antiinflammatory action of multiple humic acids, finds that humic acids has anti-inflammatory activity, act on very strong, and single administration lastingly, antiinflammatory action can be kept more than 24 hours.

In view of above situation, the unique effects of this product aspect beauty and skin care and hair care that contains humic acids promotes estrogen secretion, microcirculation improvement function, promotes skin histology growth, antiinflammatory and acceleration skin wounds to heal. The present invention is used for humic acids the beauty treatment and the nursing of skin and hair for this reason. Its function aspect beauty treatment is beauty treatment, skin protection, hair care, wrinkle removing, speckle removing, goes acne, seat skin ulcer, eczema, comedo is had obvious curative effects. It has do not contain chemical drugs, harmless, do not have characteristics such as irritated reaction, be a kind of extremely rising cosmetics.

The specific embodiment of the present invention:

Embodiment 1:

The cosmetics that contain humic acids, these cosmetics are with natural organic substance--and humic acids is a base material, can be equipped with various adjuvant such as emulsifying agent, oils and fats, wetting agent, spice according to the needs of routine and make various types of cosmetics and hair dyeing, hair care and hair washing series of products such as facial film, cleansing milk, facial cream.

Process for making is, with humic acids through dissolve, remove slag, after drying makes finished product, according to the requirement of various different beauty treatments, cosmetic and preparation for use on the hair,, make dissimilar finished products by the production process of different cosmetics again in the ratio of 6-30% base material as cosmetics.

If make facial film, the ratio of humic acids is at below 30% of gross weight;

If the proportion control of making facial cream, cleansing milk, hair cream, humic acids is at below 10% of gross weight

If the proportion control of making the hair dye humic acids gross weight 20 in.

This production technology is fit to various humic acids, as yellow humic acid, hymatomalenic acid, pyrotomalenic acid. Elder generation dissolves humic acids by the hygienic requirements of the processing technique of cosmetics, remove insoluble solid slag, with the solution liquid concentration, drying is made raw material, in per hundred parts of described conventional cosmetics, add ratio of weight and number then and be 6 parts or 10 parts or 20 parts or 30 parts or the humic acids of other numbers wherein, and then make dissimilar various types of cosmetics and hair dyeing, hair care and the hair washing series of products such as facial film, cleansing milk, facial cream made according to the conventional production process of different cosmetics.

Embodiment 2:

In the above-mentioned cosmetics that contain humic acids, described humic acids is a kind of in yellow humic acid, hymatomalenic acid, the pyrotomalenic acid or several mixture, and various humic acidss can equivalent add, also can be by the taste adding of difference requirements.

Embodiment 3:

The above-mentioned cosmetics that contain humic acids, described humic acids is yellow humic acid and/or hymatomalenic acid and/or pyrotomalenic acid, and it is (1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10) that mixture can adopt ratio of weight and number: (1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10): (1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10).

Embodiment 4:

Humic acids being used to make above-mentioned functional cosmetics, wherein not having chemical addition agent, is a kind of popular taste that meets, and has the functional cosmetics of development prospect, should test, and its result of use and pouplarity are very high.

Cited By (10)

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JP2006232785A *	2005-02-28	2006-09-07	Univ Of Tsukuba	Type i allergy inhibitor using fulvic acid and method for inhibiting onset of type i allergy
WO2007102813A1 *	2006-03-07	2007-09-13	Advantage Marketing, Inc.	Compositions and methods for human use containing fulvic acid
CN102871885A *	2012-10-18	2013-01-16	昆明理工大学	Pilatory and application of pilatory
CN103520072A *	2013-10-12	2014-01-22	昆明理工大学	Fulvic acid containing anti-acne mask and preparation method thereof
CN105832636A *	2016-05-04	2016-08-10	昆明理工大学	Chinese herb compound facial cleanser for removing acne and freckles and preparation method thereof
CN108078827A *	2018-01-08	2018-05-29	河北源本生物科技有限责任公	A kind of hair growth accelerating shampoo and preparation method thereof
CN110123721A *	2019-06-17	2019-08-16	医美生物科技(上海)有限公	A kind of shampoo compositions improving oiliness scalp
CN110840809A *	2019-12-19	2020-02-28	陕西科技大学	Humic acid cleaning and oil removing hair cleaning agent and preparation method thereof
CN110917073A *	2019-12-19	2020-03-27	陕西科技大学	Fulvic acid moisturizing and anti-dandruff shampoo and preparation method thereof
CN112641708A *	2021-02-05	2021-04-13	东晟源研究院(广州)有限公	Formula and preparation method of humic acid essence for promoting wound healing
Family To Family Citations				

* Cited by examiner, † Cited by third party, ‡ Family to family citation

Similar Documents

Publication	Publication Date	Title
CN1568929A	2005-01-26	Cosmetics containing humic acid and application of humic acid in cosmetics
JP2001501950A	2001-02-13	Use of bisphenol compounds for treating type II diabetes
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Priority And Related Applications

Priority Applications (1)

Application	Priority date	Filing date	Title
CN 03132503	2003-07-16	2003-07-16	Cosmetics containing humic acid and application of humic acid in cosmetics

Applications Claiming Priority (1)

Application	Filing date	Title
CN 03132503	2003-07-16	Cosmetics containing humic acid and application of humic acid in cosmetics

Legal Events

Date	Code	Title	Description
2005-01-26	C06	Publication	
2005-01-26	PB01	Publication	
2005-08-31	C10	Entry into substantive examination	
2005-08-31	SE01	Entry into force of request for substantive examination	

2008-02-06	C02	Deemed withdrawal of patent application after publication (patent law 2001)
2008-02-06	WD01	Invention patent application deemed withdrawn after publication

Concepts

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■ cosmetic		title,claims,abstract,description	35	0.000
■ Skin		claims,abstract,description	18	0.000
■ acid		claims,abstract,description	18	0.000
■ mixture		claims,abstract,description	9	0.000
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