

Humic acid healthy drink and application of humic acid to drink

Abstract

The invention discloses a humic acid healthy drink and application of humic acid to drinks, wherein the humic acid health product comprises mixed, carbonate, fruit juice or active milk form beverage, the humic acid being one or mixture of yellow humic acid, hymatomalenic acid and black humic acid.

CN1568827A

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Worldwide applications

2003 [CN](#)

Application CN 03132506 events

2003-07-16 Application filed by [刘南凯, 王军](#)

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Info: [Cited by \(5\)](#), [Legal events](#), [Similar documents](#), [Priority and Related Applications](#)

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Claims (4)

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1. humic acid health beverages, its composition comprises: blend type, carbonic acid, fruit juice or active newborn type drink, it is characterized in that: adding ratio of weight and number in per hundred parts of base-materials of described drink is the humic acid of 40-60 part.

2. humic acid health beverages according to claim 1 is characterized in that: described humic acid is a kind of in fulvic acid, hymatomalenic acid, the pyrotomalenic acid or several mixture.

3. humic acid health beverages according to claim 1 is characterized in that: described humic acid is fulvic 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 acid aspect the making beverage.

Description

The application aspect beverage of humic acid health beverages and humic acid

Technical field: the present invention relates to a kind of health beverages and the application of humic acid aspect beverage that contains humic acid.

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

Summary of the invention: the purpose of this invention is to provide a kind of humic acid health beverages and the application of humic acid aspect beverage, improve the bodily fuctions, improve immunity, effectively prevent virus infections.

Above-mentioned purpose realizes by following technical scheme:

The humic acid health beverages, its composition comprises: blend type, carbonic acid, fruit juice or active newborn type drink, adding ratio of weight and number in per hundred parts of base-materials of described drink is the humic acid of 40-60 part.

Above-mentioned humic acid health beverages humic acid health beverages, described humic acid are a kind of in fulvic acid, hymatomalenic acid, the pyrotomalenic acid or several mixture.

Above-mentioned humic acid health beverages, described humic acid are fulvic 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 acid aspect the making beverage.

This technical scheme has following beneficial effect:

1. the present invention joins humic acid in the daily various types of beverages drunk of people, and a kind of special functional beverage with health care character that forms, this beverage can obviously improve the immunologic function of human body after testing, improve the microcirculation of human body, thereby promote the immunity of human body, reach the purpose of resist the disease.

2. after testing, the humic acid that product of the present invention adopts is a kind of natural organic monoacid of growing under natural environment of solubility, be easy to absorb, it is a kind of natural Green Product, after being compound in the conventional beverage, with vitamin C and the Cobastab in the conventional beverage, carbon dioxide etc. are collaborative mutually, make and drink after this product one-period that opposing virus infections ability obviously strengthens, and can effectively prevent enterogastric diseases, improve GI digestive function, reduce blood fat, adjust blood pressure, can obviously reduce hyperpietic's blood pressure.

3. containing in the at present known humic acid molecule between each aromatic heterocycle such as this ring, condensed ring and some heterocycle such as pyrroles, furans, indoles has bridged bond to link to each other, and various functional groups are arranged on the aromatic ring, mainly is carboxyl, phenolic hydroxyl group, methyl, quinonyl etc. Because humic acid has the molecular structure of complexity like this, therefore its soluble substance and group vitamins show multiple physical and chemical performance after compound, comprise: the molecular weight of itself is very big, in certain medium, can also associate bigger particle, have stronger ion-exchange performance and adsorption capacity, huge legendary turtle is closed ability and buffering ability, and make phenol wherein, the electron transport system that quinone structure participates in biological oxidation, these physical and chemical performances, influence the function of large biological molecule from every side, produced tangible physiology and pharmacologically active after drinking.

4. the humic acid that adopts of this product is the macromolecule organic acid of molecular weight ranges at 200-400, and what be used for beverage mainly is fulvic acid and part hymatomalenic acid, be used for fruit tea etc. than comprising of thick drink preceding two kinds of humic acids also comprise pyrotomalenic acid outward. Through verification experimental verification, that this product has is antiviral, antibiotic, anti-inflammatory, anticancer, detoxification, improve the immunocompetence aspect and have significant pharmacologically active.

5. this product is to the Immune Effects of organism: mouse proves in research, after mouse is drunk this product solution 100 days, observe spleen tissue and learn change, and see that lymphoid tissue is flourishing and active, the white pulp zone becomes big, it is big that the lymphocyte showed increased of red pulp becomes, and a lot of macrophages occur. This this phenomenon proves that this product has humidification to the function of immune organ. The research mouse proves, the phagocytic function of Turnover of Mouse Peritoneal Macrophages and the phagocytic function of other reticuloendothelial system has been played excited effect, and also can play excited effect to non-specific immune function. And can resist cortex hormone of aadrenaline depression effect is arranged.

6. this product is to the influence of organism circulatory function:

A. this product is to microcirculatory influence:

Application microvascular blood flow velocity automatic measurement system research humic acid: after dripping norepinephrine earlier, mouth warp, flow velocity and the flow of capillary all reduce to zero; Arteriolar mean flow rate and bore also have only normal half; The spasm of venule is lighter than arteriole. After using this product, the effect arteriole that can cause the norepinephrine rapidly contraction of fullying recover from an illness is removed, and flow velocity obviously speeds, and the CBF increase is remarkable equally to the effect of capillary.

Evidence in the hyperpietic: the preceding patient's of medication nail fold microvascular blood flow velocity slows down than the normal person is obvious, and blood vessel definition and tensity are poor, and blood vessel loop deformity etc. are showed increased also. Use after this product, in blood pressure drops, the nail fold microvascular blood flow velocity is obviously accelerated, and blood vessel loop deformity number reduces; The nail fold microcirculation blood flow velocity is obviously accelerated after healthy person uses this product.

B. this product is to the influence of myocardial nutrition blood flow

(1), use cardiac muscle the principle of 86Rb picked-up is tested: obtain three fractions of humic acid with solvent gradient elution classification, its mean molecule quantity is respectively Mn300, Mn900, Mn > 2400. The three can both make the erythrocyte electrophoretic time of rabbit obviously shorten, and whole blood and plasma viscosity descend, and show that humic acid has the effect that improves hemorheological property.

(2), the research rat proves, coronary ligation is used humic acid in early days can make after the ligation 2 days infarction size obviously dwindle, cardiac contractility significantly improves; Humic acid directly translates into left chamber Hemodynamics: the sharp intraventricular pressure of aortic pressure increases, and left chamber cardiac contractility strengthens, and heart rate has quickening trend;

Under the situation that left chamber cardiac contractility descends, humic acid has cardiogenic;

Experimental result proves that this product can both improve microcirculatory function to normal person and hypertension people; And when improving the myocardial nutritional flow amount, obvious positivity mental and physical efforts are arranged and improve the effect of myocardial blood supply oxygen supply.

7. this product is to the health-care effect of disease of digestive tract

Prove that through the human body contrast test this product has satisfactory effect to disease of digestive system. Its therapeutic domain comprises: symptoms such as gastric ulcer, enteritis, diarrhoea, indigestion. Its cure rate reaches 73%.

As test is to the gastric ulcer case: 396 examples have the shade patient through gastrofiberscope confirmation or X-ray ray examination, are divided into three groups at random: first group of 120 example, use antacid antispasmodic; Second group of 128 example used this product; The 3rd group of 148 examples add the furazolidone treatment with this product. Altogether 6 weeks of oral drugs, first group of healing rate 18.3% takes a turn for the better 56.6%; Second group of healing rate 73.4% takes a turn for the better 23.4%; The 3rd group of curative effect is better than above-mentioned two groups. But the nettle rash side effect is arranged.

Therefore prove that this product is not only evident in efficacy to the treatment of disease of digestive system, and have no side effect.

8, the antiinflammatory action of product of the present invention

Prove that through result of the test this product has antiinflammatory action, rat egg white, formaldehyde swelling are had the obvious anti-inflammatory and anti effect; To injecting the leukoplania that carboxymethyl cellulose is led in the subcutaneous air bag: growth all has obvious inhibitory action to the cotton balls granulation tissue, thereby show that the goods that contain humic acid that the present invention relates to all have antiinflammatory action to the phase of oozing out and the increment phase of inflammation, this product is turned round the body experiment for acetate 8% analgesia rate. Heating rabbit to triple vaccine causes has the obvious cooling effect. The common pharmacological property of anti-inflammatory, the black body anti-inflammatory agents of the right and wrong of bringing down a fever, ease pain (NSAD). The fragrant organic monoacid of the also many genus of the chemical constitution of NSAID. In view of also belonging to the aromatic hydrocarbon organic acid on the chemical constitution of humic acid, therefore have antiinflammatory action, in addition, relevant research is proof also, and this product also has antiinflammatory action to animal is exudative with the proliferative inflammatory model. With the swelling of rat formaldehyde is index, find that humic acid has anti-inflammatory activity, and effect is very strong, and can be lasting, uses oral this beverage, and antiinflammatory action can be kept more than 24 hours.

In view of the mixture of above humic acid and group vitamins in the unique effects aspect the medical-therapeutic treatment of human body health care-change the microcirculation of philanthropist's body, improve functions such as body immunity, anti-inflammatory, promotion digestion. The present invention is used to humic acid to make the base-material of beverage for this reason. Often drink the humic acid beverage and can play multiple efficacies such as preventing virus infections, prevent

gastrointestinal disease, improve digestion function of stomach and intestine, reduce blood fat, be hypotensive. This beverage has no chemicals, natural, non-harmful characteristics, is a kind of extremely rising health beverages.

The specific embodiment of the present invention:

Embodiment 1:

The humic acid health beverages, its composition comprises: blend type, carbonic acid, fruit juice or active newborn type drink, to humic acid be dissolved by the hygienic requirements of food processing technology, remove insoluble solid slag, with the solution liquid concentration, drying is made raw material, in per hundred parts of base-materials of the described drink of described drink, add ratio of weight and number and be 40 or 50 parts or 60 parts or wherein any number humic acid, make dissimilar beverages, drink according to the conventional production process of different drinks. The ratio of blending base-material in type or the carbonated beverage is in 10%, and the base-material ratio of fruit juice type or active newborn type beverage is in 9%, and all the other are water, and other compositions of base-material are conventional essence, ascorbin, fruit juice or the like in the drink.

Embodiment 2:

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

Embodiment 3:

Above-mentioned humic acid health beverages, described humic acid is yellow humic acid and/or humatomalenic 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 acid being used to make above-mentioned functional beverage, wherein not having chemical addition agent, is a kind of popular taste that meets, and has the functional health drink of development prospect, should test, and it drinks effect and popularity is very high.

Cited By (5)

Publication number	Priority date	Publication date	Assignee	Title
CN103404642A *	2013-08-20	2013-11-27	昆明理工大学	Solid instant tea containing fulvic acid and preparation method for solid instant tea
CN103564587A *	2013-11-05	2014-02-12	云南韵雅生物科技有限公司	Natural fulvic acid compound health-care beverage as well as preparation method thereof
CN104546910A *	2014-12-18	2015-04-29	昆明理工大学	Application of fulvic acid in preparing appetite improving and digestion promoting oral preparation
CN106929383A *	2015-12-31	2017-07-07	营口富里泥炭科技有限公司	A kind of preparation method of fulvic acid apple health-care vinegar beverage
CN107455632A *	2017-06-15	2017-12-12	昆明理工大学	A kind of young coal degradation solution flavor beverage
Family To Family Citations				

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

Similar Documents

Publication	Publication Date	Title
US6203797B1	2001-03-20	Dietary supplement and method for use as a probiotic, for alleviating the symptoms associated with irritable bowel syndrome
CN1287693C	2006-12-06	Humic acid healthy drink and application of humic acid to drink
CN1759745A	2006-04-19	Hygienical functional food of blue berry and preparation method
CN101243824A	2008-08-20	Green pawpaw mastication tablet and producing method thereof
CN108812909A	2018-11-16	A kind of improvement partial eclipse or the dietary supplement nutriment of anorexia and preparation method thereof
KR101614574B1	2016-04-21	Composition of Diabetes-Improving Effective Constituents by Fermentation Products of the Trifoliolate Orange
CN103478849A	2014-01-01	Agaric ultra-fine powder iron-supplementing mixing drink and production technology thereof
CN104382129A	2015-03-04	Beverage prepared from sweet corn and black tea fungus
CN109602013A	2019-04-12	Function of blood sugar reduction food
RU2591728C2	2016-07-20	Dairy smoothie for stimulating child growth
CN1679628A	2005-10-12	Yak myeloid calcium tablets
KR101859166B1	2018-05-17	A composition for removing hangover comprising an herb extract including ginseng
CN104839670A	2015-08-19	Specific endowment constitution medical formula food
JP5527986B2	2014-06-25	Pharmaceutical composition
KR101345336B1	2013-12-30	Composition for enhancing blood circulation containing modified Jeho-Tang extract as an active ingredient

CN102048134A	2011-05-11	Five-material vegetable nutraceutical and preparation method thereof
JP2010280602A	2010-12-16	Antiallergic composition
CN101797049B	2013-06-26	Nutrient eight-treasure soup formula and preparation process thereof
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JP3441756B2	2003-09-02	Functional powdered beverage and method for producing the same
KR100484428B1	2005-04-22	Natural foods for improving constipation
CN110172106A	2019-08-27	A kind of peach gum polysaccharide iron and its application
CN106387900A	2017-02-15	Composition for regulating blood lipid, blood pressure and blood sugar, as well as application thereof
KR102062136B1	2020-01-03	Phamaceutical composition for prevention or treatment of thrombosis comprising kyung-ok-go adding the silk of zea mays and pumpkin and health functional food comprising the same
RU2165253C2	2001-04-20	Method of treatment of patients with oncological diseases

Priority And Related Applications

Priority Applications (1) ▲

Application	Priority date	Filing date	Title
CN 03132506	2003-07-16	2003-07-16	Humic acid healthy drink and application of humic acid to drink

Applications Claiming Priority (1) ▲

Application	Filing date	Title
CN 03132506	2003-07-16	Humic acid healthy drink and application of humic acid to drink

Legal Events ▲

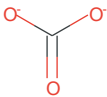
Date	Code	Title	Description
2005-01-26	C06	Publication	
2005-01-26	PB01	Publication	
2005-08-31	C10	Entry into substantive examination	
2005-08-31	SE01	Entry into force of request for substantive examination	
2006-12-06	C14	Grant of patent or utility model	
2006-12-06	GR01	Patent grant	
2011-09-21	C17	Cessation of patent right	
2011-09-21	CF01	Termination of patent right due to non-payment of annual fee	Granted publication date: 20061206 Termination date: 20100716

Concepts ▲

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<div> <div>■</div> <div>humic acid</div> </div>		title,claims,abstract,description	59	0.000
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<div> <div>■</div> <div>mixture</div> </div>		claims,abstract,description	15	0.000
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<div> <div>■</div> <div>3,7,8-trihydroxy-3-methyl-10-oxo-1,4-dihydropyrano[4,3-b]chromene-9-carboxylic acid</div> </div>		claims,description	5	0.000

▀ fulvic acid		claims,description	5	0.000
▀ fulvic acid		claims,description	5	0.000
▀ Carbonic acid		claims,description	3	0.000
▀ Carbonate dianion		abstract	1	0.000
▀ Milk		abstract	1	0.000
▀ milk		abstract	1	0.000
▀ milk		abstract	1	0.000

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