



# Boletín de la Comisión Nacional contra la Biopiratería

CENTRO DE INFORMACIÓN Y DOCUMENTACIÓN

## BOLETÍN DE SACHA INCHI

Julio 2014

### PATENTES EXTRANJERAS

**Número de publicación:** CN102864185A

**Fecha de solicitud:** 2012-09-19

**Título:**

**Solicitante:** Anhui Fengyuan Fermentation Technology Engineering Research Co. Ltd., CN

**Abstract:** The invention claims a method for producing citric acid by fermentation flour, wherein the production strain is aspergillus niger, wherein the interface as the main carbon source to flour of liquid fermentation culture medium for fermenting and producing citric acid, carrying out ventilation culture in a fermentation tank, the fermentation liquid after extracting to obtain anhydrous citric acid or citric acid. The method of the invention for producing citric acid, the cost is low, the yield is high, the quality is stable, the production period is short, an important way to replace non-grain for producing citric acid, especially is suitable for the plukenetia volubilis linneo and so on.

**Número de publicación:** AU2009239499B2

**Fecha de solicitud:** 2009-04-20

**Título:**

**Solicitante:** Asha Nutrition Sciences Inc.

**Abstract:** Lipid compositions comprising nuts, seeds, oils, legumes, fruits, grains, and dairy useful in specified amounts as dietary supplements and diet plans designed around and including the aforementioned for the prophylaxis and treatment of numerous diseases are disclosed. The compositions include omega-6 and omega-3 fatty acids where the ratio of the omega-6 to the omega-3 fatty acids and their amounts are controlled based on one or more factors including age of the subject, sex of the subject, diet of the subject, the body weight of the subject, medical conditions of the subject, and climate of the subject's living area.

**Número de publicación:** US20120100223A1

**Fecha de solicitud:** 2011-12-20

**Título:**

**Solicitante:** ASHA NUTRITION SCIENCES INC., Palo Alto, CA, US

**Abstract:** Lipid compositions comprising nuts, seeds, oils, legumes, fruits, grains, and dairy useful in specified amounts as dietary supplements and diet plans designed around and including the aforementioned for the prophylaxis and treatment of numerous diseases are disclosed. The compositions include omega-6 and omega-3 fatty acids where the ratio of the omega-6 to the omega-3 fatty acids and their amounts are controlled based on one or more factors including age of the subject, sex of the subject, diet of the subject, the body weight of the subject, medical conditions of the subject, and climate of the subject's living area.

**Número de publicación:** KR2007073873A

**Fecha de solicitud:** 2007-05-03

**Título:**

**Solicitante:** COGNIS FRANCE S.A.S.



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**Abstract:** The present invention relates to the cosmetic use of an extract of a plant belonging to the family Euphorbiaceae (preferably belonging to the genus Plukenetia).

Furthermore it relates to the cosmetic use of a protein or a mixture of proteins, whereby said protein or said mixture of proteins is extractable from a plant belonging to the family Euphorbiaceae (preferably belonging to the genus Plukenetia). Furthermore the present invention relates to said extract or to said protein or to said mixture of proteins for use as a medicament. Furthermore the present invention relates to said extract or to said protein or to said mixture of proteins, whereby said extract or said protein or said mixture of proteins has been modified chemically or enzymatically, e. g. by crosslinking, by grafting or by hydrolysis.

**Número de publicación:** EPI807038A1

**Fecha de solicitud:** 2005-10-26

**Título:**

**Solicitante:** Cognis France S.A.S., 31360 Boussens, FR, 03306383

**Abstract:** The present invention relates to the cosmetic use of an extract of a plant belonging to the family Euphorbiaceae (preferably belonging to the genus Plukenetia).

Furthermore it relates to the cosmetic use of a protein or a mixture of proteins, whereby said protein or said mixture of proteins is extractable from a plant belonging to the family Euphorbiaceae (preferably belonging to the genus Plukenetia). Furthermore the present invention relates to said extract or to said protein or to said mixture of proteins for use as a medicament. Furthermore the present invention relates to said extract or to said protein or to said mixture of proteins, whereby said extract or said protein or said mixture of proteins has been modified chemically or enzymatically, e. g. by crosslinking, by grafting or by hydrolysis.

**Número de publicación:** WO2006048158A1

**Fecha de solicitud:** 2005-10-26

**Título:**

**Solicitante:** COGNIS FRANCE S.A.S., FR

**Abstract:** The present invention relates to the cosmetic use of an extract of a plant belonging to the family Euphorbiaceae (preferably belonging to the genus Plukenetia).

Furthermore it relates to the cosmetic use of a protein or a mixture of proteins, whereby said protein or said mixture of proteins is extractable from a plant belonging to the family Euphorbiaceae (preferably belonging to the genus Plukenetia). Furthermore the present invention relates to said extract or to said protein or to said mixture of proteins for use as a medicament. Furthermore the present invention relates to said extract or to said protein or to said mixture of proteins, whereby said extract or said protein or said mixture of proteins has been modified chemically or enzymatically, e. g. by crosslinking, by grafting or by hydrolysis.

**Número de publicación:** CN101484122B

**Fecha de solicitud:** 2007-06-28

**Título:**

**Solicitante:** COTY PRESTIGE LANCASTER GROUP, DE

**Abstract:** The invention relates to a cosmetic preparation which contains an anti-aging skin care complex. Said



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complex consists of liposomes that comprise a mixture of cosmetic oil, an extract of *Plukenetia volubilis* seed, an extract of *Cynara scolymus* leaves and hydrogenated retinol. The liposomes are homogeneously distributed in a gel network consisting of water and a gelatinizing agent. The invention claims a comprising aging of skin care composition is cosmetic preparation. The composite is composed of extract of seed containing oil, cosmetic, artichoke leaf extract and mixture of hydrogenated retinol is liposome. The liposome is in gel network uniformly dispersed in water and a gelling agent.

**Número de publicación:** CNI01484122A

**Fecha de solicitud:** 2007-06-28

**Título:**

**Solicitante:** LANCASTER GROUP GMBH, DE

**Abstract:** The invention relates to a cosmetic preparation which contains an anti-aging skin care complex. Said complex consists of liposomes that comprise a mixture of cosmetic oil, an extract of *Plukenetia volubilis* seed, an extract of *Cynara scolymus* leaves and hydrogenated retinol. The liposomes are homogeneously distributed in a gel network consisting of water and a gelatinizing agent. The invention relates to a cosmetic preparation which contains an anti-aging skin care complex. Said complex consists of liposomes that comprise mixture of cosmetic oil, extract of *Plukenetia volubilis* seed, extract of *Cynara scolymus* leaves and hydrogenated retinol. The liposomes are homogeneously distributed in a gel network consisting of water and a gelatinizing agent.

**Número de publicación:** KR2009033462A

**Fecha de solicitud:** 2009-01-30

**Título:**

**Solicitante:** COTY PRESTIGE LANCASTER GROUP GMBH

**Abstract:** The invention relates to a cosmetic preparation which contains an anti-aging skin care complex. Said complex consists of liposomes that comprise a mixture of cosmetic oil, an extract of *Plukenetia volubilis* seed, an extract of *Cynara scolymus* leaves and hydrogenated retinol. The liposomes are homogeneously distributed in a gel network consisting of water and a gelatinizing agent. The invention relates to the cosmetic preparation including the skin care composite having the antiaging effect. It is made of liposome including composite is the cosmetic material oil, the phosphorus car inch (*Plukenetia volubilis*) seed extract, and the mixture of the hydrogenation retinol and artichoke leaf (*Cynara scolymus* leaves) extracts. In the gel network which liposome is made of the water and gen forming agent, it is uniformly dispersed.

**Número de publicación:** EP2040664A1

**Fecha de solicitud:** 2007-06-28

**Título:**

**Solicitante:** Coty Prestige Lancaster Group GmbH, 55116 Mainz, DE, 07747830

**Abstract:** The invention relates to a cosmetic preparation which contains an anti-aging skin care complex. Said complex consists of liposomes that comprise a mixture of cosmetic oil, an extract of *Plukenetia volubilis* seed, an extract of *Cynara scolymus* leaves and hydrogenated retinol. The liposomes are homogeneously distributed in a gel network consisting of water and a gelatinizing agent.



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**Número de publicación:** EP2040664B1

**Fecha de solicitud:** 2007-06-28

**Título:**

**Solicitante:** Coty Prestige Lancaster Group GmbH, 55116 Mainz, DE, 100823184

**Abstract:** The invention relates to a cosmetic preparation which contains an anti-aging skin care complex. Said complex consists of liposomes that comprise a mixture of cosmetic oil, an extract of *Plukenetia volubilis* seed, an extract of *Cynara scolymus* leaves and hydrogenated retinol. The liposomes are homogeneously distributed in a gel network consisting of water and a gelatinizing agent.

**Número de publicación:** US7968129B2

**Fecha de solicitud:** 2009-01-15

**Título:**

**Solicitante:** Coty Prestige Lancaster Group GmbH, Mainz, DE

**Abstract:** The invention relates to a cosmetic preparation which includes a skin care complex having an anti-ageing effect. The complex consists of liposomes comprising a mixture of cosmetic oil, extract of *Plukenetia volubilis* seeds, extract of *Cynara scolymus* leaves and hydrogenated retinol. The liposomes are homogeneously dispersed in a gel network consisting of water and a gel-forming agent.

**Número de publicación:** WO2008003638A1

**Fecha de solicitud:** 2007-06-28

**Título:**

**Solicitante:** COTY PRESTIGE LANCASTER GROUP GMBH, DE | GOLZ-BERNER Karin, MC | ZASTROW Leonhard, MC

**Abstract:** The invention relates to a cosmetic preparation which contains an anti-aging skin care complex. Said complex consists of liposomes that comprise a mixture of cosmetic oil, an extract of *Plukenetia volubilis* seed, an extract of *Cynara scolymus* leaves and hydrogenated retinol. The liposomes are homogeneously distributed in a gel network consisting of water and a gelatinizing agent.

**Número de publicación:** JP05222288B2

**Fecha de solicitud:** 2007-06-28

**Título:**

**Solicitante:** COTY PRESTIGE LANCASTER GROUP GMBH, JP

**Abstract:** The invention relates to a cosmetic preparation which contains an anti-aging skin care complex. Said complex consists of liposomes that comprise a mixture of cosmetic oil, an extract of *Plukenetia volubilis* seed, an extract of *Cynara scolymus* leaves and hydrogenated retinol. The liposomes are homogeneously distributed in a gel network consisting of water and a gelatinizing agent.

**Número de publicación:** WO2013021041A1

**Fecha de solicitud:** 2012-08-10

**Título:**





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**Solicitante:** DSM IP ASSETS B.V., NL | BADOLATO BÖNISCH Gabriela, CH | GRASS Hansjoerg, CH

**Abstract:** The present invention to stable carotenoid emulsions, which - when used in a liquid formulation (especially a beverage, such as a soft drink) - allows to obtain transparent formulation (even after pasteurization).

**Número de publicación:** WO2012163836A1

**Fecha de solicitud:** 2012-05-25

**Título:**

**Solicitante:** DSM IP ASSETS B.V., NL | FUNDA Elger, CH | TELEKI Alexandra, CH | BREMER Leonardus Gerardus Bernardus, NL | ELEMANS Pierre, NL | MEESEN Adriaan Willem, NL

**Abstract:** The present invention relates to a process for the production of extruded formulations comprising oil-in-water emulsion droplets, to such formulations as well as to the use.

**Número de publicación:** CN102228255A

**Fecha de solicitud:** 2011-05-18

**Título:**

**Solicitante:** Guangzhou Zhixiang Biotechnology Co. Ltd., CN

**Abstract:** The invention claims a healthcare electuary with functions of relieving mental pressure and resisting depression, comprising the main nutrient ingredients of inca peanut oil, sachá inchi polypeptide, plantain powder, soybean polypeptide, L- theanine, passion flower, apocynum venetum, liquorice, the root of kudzu vine, schisandra extract, deep sea fish oil, tryptophan, tyrosine, folic acid and the like. The preparation method includes performing cold extrusion and enzymolysis, then mixing uniformly in weight part, adding emulsifier molecular distilled monoglycerid and homogenizing and then spraying and drying. The inventive nutrient electuary has good mouthfeel and good functions for the depressed persons with testiness, great mood swing, obviously reduced energy, continuous fatigue without reasons, insomnia, early sleep or hypersomnia, difficulty in focusing attention or reducing attention. Compared with the antidepressant product for only relieving pressure or Western medicine with side effects, the invention having the obvious advantages is a novel healthcare solid drinks, with good market prospect of development and application.

**Número de publicación:** US20120282383A1

**Fecha de solicitud:** 2012-04-06

**Título:**

**Solicitante:** H R D Corporation, Houston, TX, US

**Abstract:** Herein disclosed is a method of processing oil, comprising providing a high shear device comprising at least one rotor and at least one complementarily-shaped stator configured to mix a gas with a liquid; contacting a gas with an oil in the high shear device, wherein the gas is an inert gas or a reactive gas; and forming a product, wherein the product is a solution, a dispersion, or combination thereof.

Herein also disclosed is a high shear system for processing oil, comprising: at least one high shear device, having an inlet and at least one rotor and at least one complementarily-shaped stator configured to mix a gas with a liquid; a gas source fluidly connected to the inlet; an oil source fluidly connected to the inlet; and a pump positioned upstream of a high shear device, the pump in fluid connection with the inlet and the oil source.

**Número de publicación:** WO2013106028A2



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**Fecha de solicitud:** 2012-04-06

**Título:**

**Solicitante:** H R D CORPORATION, US | HASSAN Abbas, US | HASSAN Aziz, US | ANTHONY Rayford G., US

**Abstract:** Herein disclosed is a method of processing oil, comprising providing a high shear device comprising at least one rotor and at least one complementarily-shaped stator configured to mix a gas with a liquid; contacting a gas with an oil in the high shear device, wherein the gas is an inert gas or a reactive gas; and forming a product, wherein the product is a solution, a dispersion, or combination thereof.

Herein also disclosed is a high shear system for processing oil, comprising: at least one high shear device, having an inlet and at least one rotor and at least one complementarily-shaped stator configured to mix a gas with a liquid; a gas source fluidly connected to the inlet; an oil source fluidly connected to the inlet; and a pump positioned upstream of a high shear device, the pump in fluid connection with the inlet and the oil source.

**Número de publicación:** CA2730074A1

**Fecha de solicitud:** 2009-07-06

**Título:**

**Solicitante:** LICE UP LTD., PETACH-TIKVA, IL

**Abstract:** Liquid ovicidal/pediculicidal compositions for eradication of ectoparasites, such as head-lice and other phthiraptera, are disclosed. The compositions comprise 5-50 weight percents of a filmforming carbohydrate and optionally 1-10 weight percents of oil, and are washable within a time period of 1-5 minutes from hair at a length of less than 60 cm in a stream of water of at least 5 liters per minute and a temperature lower than 40 °C. Hair care formulations such as shampoos, conditioners, mousses, gels and the likes containing such an ovicidal/pediculicidal composition are further disclosed. Also disclosed are methods preparing and using the compositions and formulations.

**Número de publicación:** EP2306817A1

**Fecha de solicitud:** 2009-07-06

**Título:**

**Solicitante:** Lice Up Ltd., 49125 Petach-Tikva, IL, 101159718

**Abstract:** Liquid ovicidal/pediculicidal compositions for eradication of ectoparasites, such as head-lice and other phthiraptera, are disclosed. The compositions comprise 5-50 weight percents of a film-forming carbohydrate and optionally 1-10 weight percents of oil, and are washable within a time period of 1-5 minutes from hair at a length of less than 60 cm in a stream of water of at least 5 liters per minute and a temperature lower than 40 °C. Hair care formulations such as shampoos, conditioners, mousses, gels and the likes containing such an ovicidal/pediculicidal composition are further disclosed. Also disclosed are methods preparing and using the compositions and formulations.

**Número de publicación:** US20110118196A1

**Fecha de solicitud:** 2011-01-06

**Título:**

**Solicitante:** Lice Up Ltd., Petach-Tikva, IL

**Abstract:** Liquid ovicidal/pediculicidal compositions for eradication of ectoparasites, such as head-lice and other phthiraptera, are disclosed. The compositions comprise 5-50 weight percents of a film-forming carbohydrate and optionally 1-10 weight percents of oil, and are washable within a time period of 1-5 minutes from hair at a length of less



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than 60 cm in a stream of water of at least 5 liters per minute and a temperature lower than 40° C. Hair care formulations such as shampoos, conditioners, mousses, gels and the likes containing such an ovicidal/pediculicidal composition are further disclosed. Also disclosed are methods preparing and using the compositions and formulations.

**Número de publicación:** WO2010004553A1

**Fecha de solicitud:** 2009-07-06

**Título:**

**Solicitante:** LICE UP LTD., IL | CHAZOT Ahron,IL

**Abstract:** Liquid ovicidal/pediculicidal compositions for eradication of ectoparasites, such as head-lice and other phthiraptera, are disclosed. The compositions comprise 5-50 weight percents of a film-forming carbohydrate and optionally 1-10 weight percents of oil, and are washable within a time period of 1-5 minutes from hair at a length of less than 60 cm in a stream of water of at least 5 liters per minute and a temperature lower than 40° C. Hair care formulations such as shampoos, conditioners, mousses, gels and the likes containing such an ovicidal/pediculicidal composition are further disclosed. Also disclosed are methods preparing and using the compositions and formulations.

**Número de publicación:** CNI02625693A

**Fecha de solicitud:** 2010-08-26

**Título:**

**Solicitante:** Mary Kay Inc., US

**Abstract:** Disclosed are compositions and corresponding methods of their use that include extracts from *Loropetalum chinensis*, *Camptotheca acuminata*, *Lonicera maackii*, *Washingtonia filifera*, *Artemisia parviflora*, *Glochidion lanceolaris*, *Polygonum hydropiper*, *Populus davidiana*, *Tsoongiodendron odoratum*, *Trema angustifolia*, *Ficus tikoua*, *Pistacia chinensis*, *Zizyphus mauritiana*, *Garuga forrestii*, *Michelia figo*, *Sabina chinensis*, *Cuphea balsamona*, *Setaria palmifolia*, *Polygonum lapathifolium*, *Machilus longipedicellata*, *Geranium nepalense*, *Ipomoea obscura*, *Cedrus deodara*, *Quercus aliena*, *Carqueja*, *Condurango*, *Catuaba*, *Carex baccans*, *Chrysalidocarpus lutescens*, *Gnaphalium pensylvanicum*, *Celtis sinensis*, *Cassia siamea*, *Catalpa yunnanensis*, *Potamogeton perforliatus*, *Cinnamomum japonicum*, or any combination thereof. The invention claims compound and a corresponding method thereof, wherein the composition comprises from *Loropetalum chinense*, *Camptotheca acuminata* Decne, *Lonicera maackii*, *Washingtonia H. Wendl*, *Artemisia parviflora*, *Glochidion lanceolarium*, *Polygonum hydropiper*, *Populus davidiana* Dode, *Tsoongiodendron odoratum*, *Trema angustifolia*, sub clover, *pistacia lentiscus*, *Zizyphus mauritiana* Lam, *Garuga forrestii*, *michelia fuscata*, *sabina chinensis*, *Cuphea balsamona*, palmgrass, *Polygonum lapathifolium*, *Machilus longipedicellata*, *Geranium nepalense* Sweet, *Ipomoea obscura*, cedar, oriental white oak, *Carqueja*, *plukenetia volubilis* linneo, milk *Catutummya*, *Carex baccans*, *chrysalidocarpus lutescens*, *Gnaphalium pensylvanicum*, hackberry, *Cassia siamea*, *Catalpa yunnanensis*, *Potamogeton perfoliatus*, *cinnamomum japonicum* or any combination thereof.

**Número de publicación:** CNI226816A

**Fecha de solicitud:** 1997-08-01

**Título:**

**Solicitante:** PLUM KEMI PRODN AS, DK

**Abstract:** An oil-in-water emulsion, especially for use on mammalian skin, in particular on human skin, or hair in order to cleanse the skin or hair, remove dirt, etc., and/or to preserve or improve the condition of the skin, and/or to prevent



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or treat various skin conditions such as, e.g., dry skin, irritated skin or otherwise traumatized skin. Upon application on a skin surface and following rinsing or flushing the skin surface with a liquid, the oil-in-water emulsion separates into at least two distinct phases and leaves a protective layer on the skin comprising at least a part of the oily phase. The oil-in-water emulsion also has useful properties with respect to protection of the skin against sun light and with respect to combatting attack from parasites like lice, fleas and scabies on mammals such as humans, domestic animals and pets. Also disclosed is a skin-friendly lipid, namely Meadowfoam seed oil, as a therapeutic agent, and as an agent which in itself in synergistic effect with other constituents is effective against mammalian parasites, especially from the phylum Arthropoda, and as an agent which is effective as a sun screen or a UV-A, UV-B or UV-C filter. This invention claims an oil-in-water emulsion, especially suitable for the skin of the mammal especially the skin or hair of a human, for cleaning the skin or hair, removing dirt and so on, and/or protecting or improving skin condition, and/or all kinds of skin disease, such as dry skin, skin inflammation caused by irritation or skin damage and so on. Putting the cover on the skin surface after the using liquid cleaning or washing the skin, the oil-in-water emulsion is separated into different two phases and leaving a protective layer comprising at least a portion of the oil phase on the skin surface. The oil-in-water emulsion further is provided with protecting the skin from lice, fleas and acarids and the body by sun and prevent human body, livestock and pet of the underneath of the useful characteristics. Also claims a mild skin is referred to as lipid Meadowfoam seed oil, it can be used as a therapeutic agent, and is a common with components of different functions and other components, which can effectively for the control of parasites of a mammal, particularly a parasite is arthropod door, also used as a sun or ultraviolet radiation, the ultraviolet filter B or O.

**Número de publicación:** WO2010132822A1

**Fecha de solicitud:** 2010-05-14

**Título:**

**Solicitante:** PRODUCT PARTNERS LLC, US | DAIKELER Carl D., US | DAIKELER Isabelle B., US | OLIEN Darin L., US

**Abstract:** A nutritional composition for reducing oxidative damage and lipid peroxidation in humans, while allowing for the oxidative reactions necessary to sustain vital biological functions. The nutritional compositions comprise adaptogens comprising astragalus root, ashwagandha root, cordyceps, holy basil leaf, maca root, reishi mushrooms, schizandra, and suma root; superfoods comprising acerola, camu-camu, pomegranate, bilberry, blueberry, Goji berries, Acai, maitake, citrus bioflavonoids, rose hips, and Gingko biloba; probiotics comprising bifidobacterium longum, lactobacillus acidophilus, lactobacillus acidophilus DDS-1, lactobacillus bulgaricus, lactobacillus casei, and streptococcus thermophilus; and enzymes comprising amylase, papain, cellulose, lactase, lipase, protease, and bromelain.

The nutritional compositions may also be provided as a meal replacement and further comprise one or more plant products, algae, vitamins, minerals, protein and MSM.

**Número de publicación:** US8257694B2

**Fecha de solicitud:** 2009-05-14

**Título:**

**Solicitante:** Product Partners LLC, Santa Monica, CA, US

**Abstract:** A nutritional composition for reducing oxidative damage and lipid peroxidation in humans, while allowing for the oxidative reactions necessary to sustain vital biological functions. The nutritional compositions comprise adaptogens comprising astragalus root, ashwagandha root, cordyceps, holy basil leaf, maca root, reishi mushrooms, schizandra, and





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suma root; superfoods comprising acerola, camu-camu, pomegranate, bilberry, blueberry, Goji berries, Acai, maitake, citrus bioflavonoids, rose hips, and Gingko biloba; probiotics comprising Bifidobacterium longum, Lactobacillus acidophilus, Lactobacillus acidophilus DDS-1, Lactobacillus bulgaricus, Lactobacillus casei, and Streptococcus thermophilus; and enzymes comprising amylase, papain, cellulase, lactase, lipase, protease, and bromelain. The nutritional compositions may also be provided as a meal replacement and further comprise one or more plant products, algae, vitamins, minerals, protein and methylsulfonylmethane (MSM).

**Número de publicación:** US20120201871A1

**Fecha de solicitud:** 2011-02-07

**Título:**

**Solicitante:** PROFESSIONAL COMPOUNDING CENTERS OF AMERICA LTD., Houston, TX, US

**Abstract:** Method for producing liposomes in a composition for skin permeation are provided. A composition that includes water, skin lipids, butters having linoleic acid and linolenic acid, Pracaxi oil, Plukenetia Volubilis seed oil, and phospholipids is provided. The composition is dispersed in a vessel using a high shear homogenizer. Negative pressure is created in the vessel such that liposomes of 5-20 microns are produced thereby providing for increased skin permeation of active ingredients added to the composition.

**Número de publicación:** WO2012109152A1

**Fecha de solicitud:** 2012-02-06

**Título:**

**Solicitante:** PROFESSIONAL COMPOUNDING CENTERS OF AMERICA LTD., US

**Abstract:** A composition to be used as a permeation enhancer is provided. The composition may be added to topical cosmetics or pharmaceutical formulations that are topically applied. The composition comprises about 0.05-5% w/w of one or more phospholipids, 1-20% w/w of one or more oils having essential fatty acids, behenic acid, and oleic acid, 0.1-3% w/w of one or more skin lipids, and 1-10% w/w of a butter having linoleic acid and linolenic acid. One of the oils used in the composition is Pracaxi oil.

**Número de publicación:** WO2012109151A1

**Fecha de solicitud:** 2012-02-06

**Título:**

**Solicitante:** PROFESSIONAL COMPOUNDING CENTERS OF AMERICA LTD., US

**Abstract:** Method for producing liposomes in a composition for skin permeation are provided. A composition that includes water, skin lipids, butters having linoleic acid and linolenic acid, Pracaxi oil, Plukenetia Volubilis seed oil, and phospholipids is provided. The composition is dispersed in a vessel using a high shear homogenizer. Negative pressure is created in the vessel such that liposomes of 5-20 microns are produced thereby providing for increased skin permeation of active ingredients added to the composition.

**Número de publicación:** CN103039687A

**Fecha de solicitud:** 2013-01-25

**Título:**



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#### Solicitante:

**Abstract:** The invention discloses plukenetia volubilis linneo health-care nougat. The nougat comprises maltose syrup, white granulated sugar, ovalbumin, plukenetia volubilis linneo powder, diglycerol fatty acid ester, D-mannitol, banana resistant starch, trehalose, plukenetia volubilis linneo oil, edible essence, Pu-Er raw tea extract and water. The nougat is prepared by the following steps of: extruding plukenetia volubilis linneo kernels by a cold press to prepare the plukenetia volubilis linneo oil, crushing plukenetia volubilis linneo dregs into the plukenetia volubilis linneo powder by a low-temperature liquid nitrogen crushing technology, preparing the banana resistant starch by a spray drying technology, and mixing and boiling the nutrients including the trehalose, the plukenetia volubilis linneo oil, the plukenetia volubilis linneo powder, the banana resistant starch and the Pu-Er raw tea extract and other accessories. The nougat is stable in preservation, delicate in mouthfeel during eating, moderate in toughness, non-sticky, high in sweetness and low in calorie, has less possibility of softening, has the effects of clearing free radicals in body, improving the immunity of organism, regulating the level of blood sugar and the like, can prevent human osteoporosis and promote proliferation of human bifidobacteria, and is beneficial to gastrointestinal health.

**Número de publicación:** CNI02150787B

**Fecha de solicitud:** 2011-01-26

#### Título:

**Solicitante:** The People's Republic Of China Qinhuangdao Entry-exit Inspection And Quarantine Bureau, CN

**Abstract:** The invention claims a steam hot and humid inactivating method of soybean quarantine harmful organisms, which is used for processing bean product bean peel, impurities and leftovers main quarantine harmful organisms produce inactivated, with the quarantine pest of soybean processed product bean peel, impurities and leftovers and so on by a crusher to crush until the granularity is not more than 3 mm, and the processed product is temperature is not less than 85 °C degrees centigrade and the relative humidity is not less than 95% of the device, the time is not less than 4 min, quarantine harmful organism is 100%. Adopted a wet heat inactivation method is simple, economic and environment-friendly, and it can be widely used for inlet soybean processed product according to rest impurities and bean and inactivated to quarantine harmful organism in the feed.

**Número de publicación:** WO2010047748A1

**Fecha de solicitud:** 2009-10-09

#### Título:

**Solicitante:** REMA BALAMBIKA, US

**Abstract:** A turmeric, turmeric components, curcumin or curcuminoid modified nut or seed butter spread known as A which is resistant to oxidation with improved cu/co/tc/tu/mx solubility and possessing some human health benefits comprising: 0.2-70 % of components selected from the group consisting of curcumin, curcuminoids, turmeric components and turmeric; and 30-99.8% of nut or seed particles and/or nut/seed butters as a dispersing medium. This spread has increased resistance to oxidation and bacterial attack as compared to the nut or seed butter alone. Based on health studies of curcumin, the modified nut or seed butter spread is also expected to have significant preventative health benefits including effectiveness as a chemopreventive, anti- Alzheimer's, anti- inflammatory, and antibacterial agent. The nut/seed butter medium improves the solubility and bioavailability of cu/co/tc/tu/mx. The invention is taste perfected for the western palate; it will serve as a novel vehicle for making curcumin/turmeric consumption an integral part of the western diet.



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**Número de publicación:** CA2534670A1

**Fecha de solicitud:** 2004-08-06

**Título:**

**Solicitante:** UNIVERSITE LAVAL, QUEBEC, Q1, CA

**Abstract:** This invention relates to a new conjugated linoleic acids, a process for preparation thereof and method of use. Thus this invention is concerned with the preparation and purification of conjugated linoleic acids from materials rich in alpha or gamma linoleic acids. The reaction produces a mixture containing a 1:1 ratio of 9Z, 11E, 15Z-octadecatrienoic acid and 9Z, 13E, 15Z-octadecatrienoic acid. The mixture can be purified up to 90 % by liquid chromatography, crystallization or urea crystallization. The mixture of 1:1 9Z, 11E, 15Z-octadecatrienoic acid and 9Z, 13E, 15E, 15Z-octadecatrienoic acid has anticancerous activities.

**Número de publicación:** US7417159B2

**Fecha de solicitud:** 2006-08-21

**Título:**

**Solicitante:** Universite Laval, Quebec, CA

**Abstract:** This invention relates to a new conjugated linoleic acids, a process for preparation thereof and method of use. Thus this invention is concerned with the preparation and purification of conjugated linoleic acids from materials rich in alpha or gamma linoleic acids. The reaction produces a mixture containing a 1:1 ratio of 9Z, 11E, 15Z-octadecatrienoic acid and 9Z, 13E, 15Z-octadecatrienoic acid. The mixture can be purified up to 90% by liquid chromatography, crystallization or urea crystallization. The mixture of 1:1 9Z, 11E, 15Z-octadecatrienoic acid and 9Z, 13E, 15E, 15Z-octadecatrienoic acid has anticancerous activities.

**Número de publicación:** WO2005014516A1

**Fecha de solicitud:** 2004-08-06

**Título:**

**Solicitante:** UNIVERSITE LAVAL, CA

**Abstract:** This invention relates to a new conjugated linoleic acids, a process for preparation thereof and method of use. Thus this invention is concerned with the preparation and purification of conjugated linoleic acids from materials rich in alpha or gamma linoleic acids. The reaction produces a mixture containing a 1:1 ratio of 9Z, 11E, 15Z-octadecatrienoic acid and 9Z, 13E, 15Z-octadecatrienoic acid. The mixture can be purified up to 90 % by liquid chromatography, crystallization or urea crystallization. The mixture of 1:1 9Z, 11E, 15Z-octadecatrienoic acid and 9Z, 13E, 15E, 15Z-octadecatrienoic acid has anticancerous activities.

**Número de publicación:** CN1075851A

**Fecha de solicitud:** 1993-01-01

**Título:**

**Solicitante:** WRIGLEY JR CO WM, US

**Abstract:** Providing a wax-free chewing gum matrix and the matrix. In one embodiment, the providing a flavor release at least similar same-containing wax matrix as good as the wax-free pectin soft candy, the wax-free matrix comprises an



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elastomeric, polyvinyl acetate, an elastomer plasticizer, and the content of the oil sufficient to achieve the same similar wax-containing pectin soft candy matrix at least as good as the flavour-releasing performance.

**Número de publicación:** CNI01773047A

**Fecha de solicitud:** 2010-03-01

**Título:**

**Solicitante:** Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences, Kunming, Yunnan 650223, CN

**Abstract:** The invention claims a method for culturing seedlings of *Plukenetia volubilis* Linneo, comprising steps of collecting seeds, building sand bed for accelerating germination, processing seeds, sowing and accelerating germination, managing sand bed, filling nutritive soil in bag, transplanting seedlings and managing nursery garden as follows: collecting ripe seeds and soaking the collected seeds in mild water at 40-50 degrees centigrade and naturally cooling the seeds for 24h; then sowing and accelerating germination; the *Plukenetia volubilis* Linneo is featured by large quantity of fruits and seeds and convenience in collecting seeds, so it is convenient to culture seedlings by seeds along with low cost and high seedling-selling rate and good market aspect, which can culture a large number of seedlings within short time.

**Número de publicación:** CNI01773038A

**Fecha de solicitud:** 2010-01-27

**Título:**

**Solicitante:** Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences, Kunming, Yunnan 650223, CN

**Abstract:** The invention claims a cuttage propagation method of a *plukenetia volubilis* linneo. It comprises the following steps: taking annual rattan of *plukenetia volubilis* linneo as bigslip, then cutting it into shoots for cutting and soaking them with ABT rooting powder aqueous solution for 1-2h, and then cuttaging them in sand bed for 15-25d and transplanting them in a seedling bed; conventionally managing them in seedling nursery when hardening seedlings, then fertilizing, preventing and treating plant diseases and insect pests based on growth conditions of the seedlings, and finally taking them out of the seedling nursery to plant in fields after hardening seedlings for 25-35d. Said invention not only can provide seedling ensure to industrialized planting of *plukenetia volubilis* linneo, but also can provide propagation method to breeding high-yield excellent single plant of *plukenetia volubilis* linneo, such that the generations can keep excellent properties in a better way; and it has excellent application prospect.

**Número de publicación:** CNI01999652A

**Fecha de solicitud:** 2010-10-27

**Título:**

**Solicitante:** Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences, CN

**Abstract:** This invention claims healthcare food with function of reducing blood fat and preparation method thereof. 3 to 25 parts of red yeast rice extract, 3 to 30 parts of Puer ripe tea extract, 40 to 93 parts of *plukenetia volubilis* linneo, and 1 to 8 parts of wax are weighed; the raw materials are processed into soft capsules according to ordinary technology. This invention takes *plukenetia volubilis* linneo as main component with red yeast rice extract, Puer ripe tea extract and wax as auxiliary material; the prepared healthcare food has the functions of remarkably reducing blood fat and resisting thrombus with remarkable and safe medicinal effect; this food is strong in controllability, stable in quality, which provides a new choice for daily health care. Moreover, the *plukenetia volubilis* linneo is taken as dispersant, which is good for moulding soft capsule good for uniformly dispersing the effective components such as lovastatin in the red





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yeast rice extract in oil liquid and being absorbed by human body. Meanwhile, the Puer ripe tea extract easily absorbs moisture; and it is convenient to store the soft capsule for a long time.

**Número de publicación:** CNI01982197A

**Fecha de solicitud:** 2010-10-27

**Título:**

**Solicitante:** Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences, CN

**Abstract:** This invention claims a plukenetia volubilis polypeptide oral liquid, which is prepared through a method comprising the following steps: soaking plukenetia volubilis kernel in water, and then grinding into pulp to obtain plukenetia volubilis collagen emulsion; performing secondary enzyme destruction to the collagen emulsion to obtain plukenetia volubilis polypeptide liquid, and then cooling to room temperature; adding flavouring to mix uniformly, and homogenizing with a high pressure homogenizer, and then filling and sterilizing to obtain needed plukenetia volubilis polypeptide oral liquid. This invention creates valuable way for deep exploitation and utilization of plukenetia volubilis. Oligopeptide and polypeptide compounds in plukenetia volubilis kernel are extracted through enzyme engineering technology; and multiple nutrient contents, such as glucose, fructooligosaccharide and vitamin C, are added therein and can be absorbed by the human body directly; thus the transfer quantity and digestive absorption rate of protein are improved.

**Número de publicación:** CNI01982163A

**Fecha de solicitud:** 010-10-27

**Título:**

**Solicitante:** Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences, CN

**Abstract:** The invention claims an Omega-3 fatty acid oil moisturizer and preparation method thereof, wherein the method includes dissolving xanthan gum and glycerol into deionized water and heating to 70 degrees centigrade; heating 1-5 parts of Plukenetia volubilis Omega-3 fatty acid oil, 2-6 parts of squalane, 1-3 parts of methyl glucosamine sesquistearate, 2-6 parts of setanol/ octadecanol, 2- 6 parts of methyl glucosamine PEG-20 sesquistearate and 3-8 parts of glycerin monostearate to 70-80 degrees centigrade, stirring, dissolving, emulsifying and homogenizing; adding the essence and methyl parahydroxybenzoates to emulsify, performing vacuum degassing, filtering and cooling. The invention can keep the skin elasticity and luster, promotes the skin to absorb the Omega-3 fatty acid, keeps the sufficient water and nutrition of the skin, effectively prevents the harm of the ultraviolet rays to the skin, increases the skin elasticity, improves the crude and dark skin and blooms the activity of the skin.

**Número de publicación:** CNI01982163B

**Fecha de solicitud:** 2010-10-27

**Título:**

**Solicitante:** Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences, CN

**Abstract:** The invention claims a skin-moisturizing cream of Omega-3 fatty acids soil and preparation method thereof. Dissolving the xanthan gum and glycerol in deionized water and heating to 70 degrees centigrade. heating the litopenaeus vannamei oil 3 fatty acid oil 1-5 parts, squalane 2-6 parts, methyl glucoside sesquistearate 1-3 parts, sixteen / eighteen alcohol 2-6 shares, methyl glycoside PEG-20 sesquistearate 2-6 parts and glycerol monostearate 3-8 parts commonly to 70- 80degrees cnetigrade, emulsification homogenizing after stirring and dissolving. Adding in with essence and methyl p-



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hydroxybenzoate for a second emulsification homogenizing. Then preparing through vacuum degassing, filtering, and cooling. The invention can keep skin elastic and lenitive, promoting skin to adequately absorb 3 fatty acid, maintain sufficient moisture and nutrient of skin, effectively combating the injury of ultraviolet to skin, increasing the skin elastic, improving the skin of rough, dark sink without light quality, invoking whelk activity of the skin.

**Número de publicación:** CN101773047B

**Fecha de solicitud:** 2010-03-01

**Título:**

**Solicitante:** Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences, CN

**Abstract:** The invention claims a plukenetia volubilis breeding method. Comprising seed collection, establish germination sand bed, processing seed, sowing seeds, managing sand, nutrition soil bag, transplanting and managing seedling and so on. Wherein, picking the mature seed at 40 degrees centigrade and 50 °C in the water and naturally cooling to seed sprouting to 24h. Because plukenetia oil vine hanging fruit, seed and seed collecting convenient, thus the seed, the operation process is simple, low cost, the round rate, culturing the seedling in a short time, has good market application prospect.

**Número de publicación:** CN101773038B

**Fecha de solicitud:** 2010-01-27

**Título:**

**Solicitante:** Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences, CN

**Abstract:** The invention claims a plukenetia volubilis cuttage propagation method. By year plukenetia volubilis raw cane stem as quickset, cut into plug after ear root powder with ABT solution for 1 to 2 hours, wherein the cuttage 15 in the sand bed for 25 days to the seedling bed, seedling when seedling according to normal processing management, according to the growth condition, fertilizing the seedling, preventing and treating diseases and insect pests, seedling for 25 to 35 days round the field planting. This invention not only to planting seedling providing guarantee for scale plukenetia volubilis, but also can provide propagation method for plukenetia volubilis high-yield excellent single strain breeding, the generation and the female parent to keep the excellent characteristics, it has good market application prospect.

**Número de publicación:** CN101982197B

**Fecha de solicitud:** 2010-10-27

**Título:**

**Solicitante:** Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences, CN

**Abstract:** The invention claims a kind of plukenetia volubilis polypeptide oral liquid. Oil plukenetia volubilis kernel to soak after grinding slurry by water to obtain plukenetia volubilis protein emulsion; Protein emulsion by the enzymolysis liquid after secondary enzyme with 500 meshes filter cloth to filter to obtain plukenetia volubilis polypeptide liquid, cooling to room temperature; Then adding flavouring agent uniformly stirring, and using high pressure homogenizer, and then filling and sterilizing to obtain needed plukenetia volubilis polypeptide oral liquid. The invention is deep development and utilization of plukenetia volubilis creates valuable way. Using enzyme engineering technology of extracting plukenetia volubilis kernel of oligopeptide, polypeptide compound and so on, and adding glucose, oligosaccharide, vitamin C and so on multiple nutrient contents can be directly absorbed by human body, improves the delivery quantity and the digestibility of the protein.



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**Número de publicación:** CNI01999652B

**Fecha de solicitud:** 2010-10-27

**Título:**

**Solicitante:** Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences, CN

**Abstract:** The invention claims a health food with function of reducing blood fat and preparation method thereof. Weigh monascus extract, 3 to 25 parts of puer tea extract, 3 to 30 parts of plukenetia volubilis oil, 40 to 93 parts and beeswax 1 to 8 parts of the raw materials to prepare into soft capsule by conventional process.

The invention uses plukenetia volubilis linneo oil as main component, and combined with red yeast rice extract, Pu er tea extract and beeswax, the prepared health food has obvious function of reducing blood fat, antithrombotic effect, and the medicine effect is obvious, safe, it has strong controllability and stable quality, which provides new choice for the daily health food. And the plukenetia volubilis linneo oil as dispersant is good for the forming of soft capsule, soft capsule form is also good for the lovastatin and other effective components in red yeast rice extract uniformly dispersed in the oil, convenient for human body absorbing. At the same time, because Pu er tea extract is easy to absorb moisture, the soft capsule product is convenient for long term storing.

**Número de publicación:** CNI01978942B

**Fecha de solicitud:** 2010-10-27

**Título:**

**Solicitante:** Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences, CN

**Abstract:** The invention claims a kind of Omega-3 fatty acid oil-emulsion and its preparation method. Taking mixed alcohol of sucrose and glycerol heating to 70 °C and de-ionized water. Taking oil plukenetia volubilis Omega-3 fatty acid oil, 10 to 20 parts of octyl 1 to 5 parts of methyl glucoside sesquistearate 1, 3 parts of methyl glucoside PEG-20 sesquistearate and 2 to 6 parts of isopropyl myristate 3~8 parts of common heating to 70 to 80 °C centigrade, stir the material completely dissolve, emulsifying and homogenizing emulsifying homogenizer. At last adding methyl parahydroxybenzoates, essence and vitamin C and a secondary emulsification. Then preparing through vacuum degassing, filtering, and cooling. The invention can keep skin elastic and lenitive to make skin completely absorb Omega-3 fatty acid, keeping moisture and nutrient enough skin, effectively resist ultraviolet for skin damage, increase elasticity of skin, improve rough, sink without light quality of the skin, making the skin in great form for activity.

**Número de publicación:** CNI01978942A

**Fecha de solicitud:** 2010-10-27

**Título:**

**Solicitante:** Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences, CN

**Abstract:** The invention claims omega-3 fatty acid oil facial treatment milk and a preparation method thereof. The steps are as follows: mixing the glycerol and deionized water and heating up to 70 degrees centigrade; heating up 10-20 parts of Plukenetia volubilis Omega-3 fatty acid oil, 1-5 parts of octyl and decyl glycerate, 1-3 parts of methyl glucoside sesquialter stearic acid ester, 2-6 parts of methyl glucoside PEG-20 sesquialter stearic acid ester and 3-8 parts of isopropyl myristate to be 70-80 degrees centigrade, stirring until the materials are totally dissolved; entering into an emulsification homogenizer, emulsifying and homogenizing; finally, adding methyl parahydroxybenzoates, essence and vitamin C, emulsifying and homogenizing again; then vacuum degassing, filtering and cooling down, the product is



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produced. The invention can keep the elasticity and moist of skin, promote the skin to fully adsorb Omega-3 fatty acid and keep the sufficient moisture and nutrient of the skin, effectively resist the damage of ultraviolet rays to the skin, increase the elasticity of skin, improves the coarse and dull skin without light quality, so that the skin shines the youthful vitality.

**Número de publicación:** CN103053376A

**Fecha de solicitud:** 2013-01-30

**Título:**

**Solicitante:**

**Abstract:** The invention discloses a planting standardized management and protection method of sachu inchi. The standardized management and protection method comprises the steps of in a period of planting sachu inchi for 1-4 months, pruning and shaping the sachu inchi, weeding and topdressing, tying the sachu inchi which grows to 20-30cm onto a climbing leading rod, and tying onto an iron wire when the sachu inchi grows to a certain height; in the next year of planting, pruning and shaping, topdressing and weeding as well, weeding from March, pruning and shaping from April, topdressing for the first time from June and topdressing for the second time from August, and in the period of topdressing twice, pruning and shaping as well as weeding for at least one time in each month until October of the year. The method for management and protection in the next year of planting disclosed by the invention can guarantee nutrition required by growth of the plant, and can reduce the quantity of useless branches through pruning; and the method can regulate nutrition distribution of plant, promote development of fruiting branch, increase fruit rate, improve fruiting surface of the plant and improve output of a single plant, and the fruit is more rapid to ripen and fewer in empty grain.

**Número de publicación:** CN1133132A

**Fecha de solicitud:** 1995-04-14

**Título:**

**Solicitante:** XIZANG COMML & TRADE IMPORT & EXPORT GEN,CN

**Abstract:** The invention claims a kind of Tibet plukenetia volubilis linneo resveratrol series nutrient porridge, wherein the porridge producing resveratrol plukenetia volubilis linneo as Tibet plateau as the main raw material, auxiliary of edible plant or animal as raw material, raw material selecting, soaking, boiling, filling, the konjak fine powder filling solution, prepared by sealing, sterilizing process; Selecting proper auxiliary ingredient to obtain the Tibet plukenetia volubilis linneo porridge, 莲枣, eel medlar porridge, medlar porridge and so on. The invention is featured with rich nutrition, good mouth feel. Convenient edible, medicinal and edible phase and the good effect.

**Número de publicación:** US20060281815A1

**Fecha de solicitud:** 2006-08-21

**Título:**

**Solicitante:**

**Abstract:** This invention relates to new conjugated linoleic acids, a process for preparation thereof and method of use. Thus this invention is concerned with the preparation and purification of conjugated linoleic acids from materials rich in alpha or gamma linoleic acids. The reaction produces a mixture containing a 1:1 ratio of 9Z, 11E, 15Z-octadecatrienoic acid and 9Z, 13E, 15Z-octadecatrienoic acid. The mixture can be purified up to 90% by liquid chromatography,





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crystallization or urea crystallization. The mixture of 1:1 9Z, 11E, 15Z- octadecatrienoic acid and 9Z, 13E, 15E, 15Z- octadecatrienoic acid has anticancerous activities.

**Número de publicación:** US20070264221A1

**Fecha de solicitud:** 2007-05-02

**Título:**

**Solicitante:**

**Abstract:** The invention relates to a preparation containing an extract of a plant of the family Euphorbiaceae genus Plukenetia and cosmetic and pharmaceutical preparations containing the extract. The extract contains proteins which when applied to the skin can provide an anti-inflammatory effect, a skin tightening effect, an antiaging effect and a substantivity effect. The preparations can also contain an oil of the plant. The preferred plant is Plukenetia volubilis. The extract, protein or mixture of proteins in the extract can be modified by hydrolysing, grafting or crosslinking.

**Número de publicación:** US20090196895A1

**Fecha de solicitud:** 2009-01-15

**Título:**

**Solicitante:**

**Abstract:** The invention relates to a cosmetic preparation which includes a skin care complex having an anti-ageing effect. The complex consists of liposomes comprising a mixture of cosmetic oil, extract of Plukenetia volubilis seeds, extract of Cynara scolymus leaves and hydrogenated retinol. The liposomes are homogeneously dispersed in a gel network consisting of water and a gel-forming agent.

**Número de publicación:** US20100098789A1

**Fecha de solicitud:** 2009-10-09

**Título:**

**Solicitante:**

**Abstract:** A turmeric, turmeric components, curcumin or curcuminoid modified nut or seed butter spread known as A which is resistant to oxidation with improved cu/co/tc/tu/mx solubility and possessing some human health benefits comprising: 0.2-70% of components selected from the group consisting of curcumin, curcuminoids, turmeric components and turmeric; and 30-99.8% of nut or seed particles and/or nut/seed butters as a dispersing medium. This spread has increased resistance to oxidation and bacterial attack as compared to the nut or seed butter alone. Based on health studies of curcumin, the modified nut or seed butter spread is also expected to have significant preventative health benefits including effectiveness as a chemopreventive, anti-Alzheimer's, anti-inflammatory, and antibacterial agent. The nut/seed butter medium improves the solubility and bioavailability of cu/co/tc/tu/mx. The invention is taste perfected for the western palate; it will serve as a novel vehicle for making curcumin/turmeric consumption an integral part of the western diet.

**Número de publicación:** US20100291050A1

**Fecha de solicitud:** 2009-05-14

**Título:**

**Solicitante:**



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**Abstract:** A nutritional composition for reducing oxidative damage and lipid peroxidation in humans, while allowing for the oxidative reactions necessary to sustain vital biological functions. The nutritional compositions comprise adaptogens comprising astragalus root, ashwagandha root, cordyceps, holy basil leaf, maca root, reishi mushrooms, schizandra, and suma root; superfoods comprising acerola, camu-camu, pomegranate, bilberry, blueberry, Goji berries, Acai, maitake, citrus bioflavonoids, rose hips, and Gingko biloba; probiotics comprising bifidobacterium longum, lactobacillus acidophilus, lactobacillus acidophilus DDS-1, lactobacillus bulgaricus, lactobacillus casei, and streptococcus thermophilus; and enzymes comprising amylase, papain, cellulose, lactase, lipase, protease, and bromelain. The nutritional compositions may also be provided as a meal replacement and further comprise one or more plant products, algae, vitamins, minerals, protein and MSM.

**Número de publicación:** CNI03535651

**Fecha de solicitud:** 2013-10-31

**Título:**

**Solicitante:** HEFEI KANGLING HEALTH PRESERVING SCIENCE & TECHNOLOGY CO LTD

**Abstract:** The invention discloses a method for preparing beauty-maintaining healthcare fruit powder containing blueberries. The beauty-maintaining healthcare fruit powder is prepared from the following raw materials in parts by weight: 20-30 parts of white crisp pears, 15-20 parts of tomatoes, 10-15 parts of sweet peppers, 50-85 parts of the blueberries, 10-15 parts of plukenetia volubilis linneo powder, 8-13 parts of tremella, 2-3 parts of radix ophiopogonis, 2-3 parts of poria cocos, 1-2 parts of sealwort, 1-2 parts of lilies, 1-2 parts of rubiaceae borreria stricta, 2-3 parts of platycodon grandiflorum, 1-2 parts of hance brandisia herbs, 1-2 parts of Chinese holly leaves, 2-3 parts of potentilla discolor, 1-2 parts of adenophora stricta, 4-8 parts of pseudo-ginseng powder and a proper amount of water. The beauty-maintaining healthcare fruit powder prepared by the method is simple to prepare, heavy in fruity fragrance, sweet and mellow in mouth feel and convenient to eat, and is mixed with hot water when being eaten; beneficial ingredients of Chinese herbal medicines with effects of benefiting vital energy to dredge intestines, relieving restlessness to calm nerves and tonifying spleen to promote appetite are added and have synergistic effect together with the blueberries and plukenetia volubilis linneo for effectively maintaining beauty, moistening skin and keeping young blood.

**Número de publicación:** CNI03535173

**Fecha de solicitud:** 2013-10-11

**Título:**

**Solicitante:** XISHUANGBANNA TROPICAL BOTAN GARDEN CHINESE ACADEMY OF SCIENCE

**Abstract:**

**Número de publicación:** CNI03431378

**Fecha de solicitud:** 2013-07-30

**Título:**

**Solicitante:** SHENZHEN BGI CO LTD

**Abstract:** The invention discloses a composition containing water-soluble plukenetia volubilis linneo protein powder, which comprises 20-50wt% of water-soluble plukenetia volubilis linneo protein powder and 15-30mg/100g vitamin E. The water-soluble plukenetia volubilis linneo protein powder has the advantages that the water-soluble plukenetia



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volubilis linneo protein powder is high in nutrient value, and high in protein bio-utilization, and can be digested and absorbed by a human body easily.

**Número de publicación:** CN103385118

**Fecha de solicitud:** 2013-07-22

**Título:**

**Solicitante:** XISHUANGBANNA TROPICAL BOTAN GARDEN CHINESE ACADEMY OF SCIENCE

**Abstract:** The invention discloses a grafting breeding method for plukenetia volubilis.

Mature plukenetia volubilis seeds are sown in a nutritious cup filled with flower soil to carry out seedling raising; after the seeds sprout and before hypocotyls grow to 5cm and seed leaves completely expand, seedlings are disinfected and the hypocotyls are cut off and are used as rootstocks for later use; plukenetia volubilis sprouts to be grafted are collected to be used as scions and are inserted into notches of the rootstocks and then the junctions of the scions and the rootstocks are wrapped tightly and bundled solidly by Parafilm sealing films; and grafted nursery stocks are moved into a greenhouse and after the wounds at the junctions of the scions and the rootstocks are healed, the seedlings are exercised for one week and then can be moved into the land to be planted. The grafting breeding method has the characteristics that the grafting breeding method is simple to operate, needs a small number of scion materials, has high survival rate, low cost and high growth speed and can be applied to rapid propagation of superior individual plants and fine varieties; a great amount of high-quality nursery stocks can be propagated in short time; and the grafting breeding method has good market application prospect.

**Número de publicación:** CN103070046

**Fecha de solicitud:** 2013-01-30

**Título:**

**Solicitante:** XISHUANGBANNA YINQI BIOLOG RESOURCE DEV CO LTD

**Abstract:** The invention discloses a standard building method of a large-area planting climbing stand for Xishuangbanna Plukenetia volubilis. The method comprises the following steps of planting piles, stretching iron wires, inserting climbing poles and the like, i.e. selecting the pile root cylinder parts and the middle parts of whangees of which the age is more than 3 years as materials for building the stand, wherein the length of the piles is 2.1 to 2.4m; planting the piles which are arranged according to planting row, wherein the pile planting distance is 5 to 6 meters per pile; connecting two strands of iron wires on and below the piles, wherein the first strand of iron wire is positioned at the tops of the piles, and the second strand of iron wire is 0.8 to 1.2 meters away from the ground; fixedly connecting the upper parts of the side stand-building piles with the wire-stretched piles through the iron wires, thus finishing the building of the climbing stand; and inserting climbing poles which guide seedling trees to climb to the stand, and bonding the climbing poles onto the iron wire on the top of the climbing stand. By the planting climbing stand building method, good growth of the Xishuangbanna Plukenetia volubilis is facilitated, the yield in unit area can be increased, and the quality of fruits can be improved.

**Número de publicación:** CN103069993

**Fecha de solicitud:** 2013-01-30

**Título:**

**Solicitante:** XISHUANGBANNA YINQI BIOLOG RESOURCE DEV CO LTD



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### BOLETÍN DE SACHA INCHI

Julio 2014

**Abstract:** The invention discloses a seedling-growing and standard planting method for Xishuangbanna Plukenetia volubilis. The method comprises the following steps of 1, determining plant row spacing which is 2 to 2.5m\*2.5 to 3m; 2, determining pond-digging specification which is 35 to 45cm\*45 to 55cm\*55 to 65cm, wherein the pond-digging method comprises the step of horizontally distributing points along a contour line; 3, after digging a pond, re-filling one third of depth of the pond, adding 0.1 to 0.2kg of composite fertilizer with 25 percent of total nutrition as a basal fertilizer, uniformly stirring the fertilizer and pond soil, and shoveling the surface fertilizer soil back, wherein the pond filling soil is slightly higher than a definitive planting pond opening; and 4, planting seedlings to definitive places, i.e. planting the seed seedlings in definitive planting holes, layering and compacting thin refilling soil, wherein the planting depth is 15 to 20cm and is 3 to 5cm slightly higher than seedling tree nutrition soil, watering root-fixing water, and keeping the moisture of the soil. By the method, the seedling-growing planting survival rate of Xishuangbanna Plukenetia volubilis fruits can be improve and can be up to over 95 percent. Technical guidance for ecological building and industrial planting of the Xishuangbanna Plukenetia volubilis in tropical regions can be provided, and enormous ecological profit and economic benefit can be realized.

**Número de publicación:** CN103069992

**Fecha de solicitud:** 2013-01-30

**Título:**

**Solicitante:** XISHUANGBANNA YINQI BIOLOG RESOURCE DEV CO LTD

**Abstract:** The invention discloses a standard trimming method of Xishuangbanna Plukenetia volubilis plants. The method comprises the following steps of 1, determining trimming time, trimming method and trimming length, wherein the trimming time includes the interval of 2 to 3 months, the trimming method comprises chopping, retracting and thinning branches, and the trimming length comprises 5 types of extremely short tip, short tip, middle tip, long tip and super- long tip. Small plants which are planted to definitive places in the year and adult plants which are planted to definitive places for over one year are trimmed. By the method, the shapes of plant trees are controlled, space is fully used, a stereo fruiting structure is formed, tree growing ways are stable, vigorous fruiting ability of the plants can be kept, and a continuous fertility effect is achieved.; The fruiting amount of single plant of the Xishuangbanna Plukenetia volubilis which is trimmed by the method is increased by over 20 percent.

**Número de publicación:** CN103039687

**Fecha de solicitud:** 2013-01-25

**Título:**

**Solicitante:** PU ER LIANZHONG BIOLOG RESOURCE DEV CO LTD

**Abstract:** The invention discloses plukenetia volubilis linneo health-care nougat. The nougat comprises maltose syrup, white granulated sugar, ovalbumin, plukenetia volubilis linneo powder, diglycerol fatty acid ester, D-mannitol, banana resistant starch, trehalose, plukenetia volubilis linneo oil, edible essence, Pu-Er raw tea extract and water.; The nougat is prepared by the following steps of: extruding plukenetia volubilis linneo kernels by a cold press to prepare the plukenetia volubilis linneo oil, crushing plukenetia volubilis linneo dregs into the plukenetia volubilis linneo powder by a low-temperature liquid nitrogen crushing technology, preparing the banana resistant starch by a spray drying technology, and mixing and boiling the nutrients including the trehalose, the plukenetia volubilis linneo oil, the plukenetia volubilis linneo powder, the banana resistant starch and the Pu-Er raw tea extract and other accessories.; The nougat is stable in preservation, delicate in mouthfeel during eating, moderate in toughness, non-sticky, high in sweetness and low in





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calorie, has less possibility of softening, has the effects of clearing free radicals in body, improving the immunity of organism, regulating the level of blood sugar and the like, can prevent human osteoporosis and promote proliferation of human bifidobacteria, and is beneficial to gastrointestinal health.

**Número de publicación:** CNI02894450

**Fecha de solicitud:** 2012-10-31

**Título:**

**Solicitante:** JINZHOU QIAOPAI MACHINERY CO LTD<sub>o</sub>XISHUANGBANNA YINQI BIOLOG RESOURCES DEV CO LTD<sub>o</sub>

**Abstract:** The invention discloses a plukenetia volubilis linneo shelling process and a special segment breaking device. The plukenetia volubilis linneo shelling process comprises the following steps of: performing segment breaking treatment on picked and dried plukenetia volubilis linneo; performing sorting and impurity removal on the plukenetia volubilis linneo subjected to segment breakage; classifying single segments of the impurity-free plukenetia volubilis linneo according to sizes; performing primary shelling and sorting treatment on the classified single segments of the plukenetia volubilis linneo; classifying the plukenetia volubilis linneo with inner shell according to the size of the inner shell of the plukenetia volubilis linneo; and performing secondary shelling and sorting treatment on the classified plukenetia volubilis linneo with the inner shell to obtain the impurity-free plukenetia volubilis linneo kernel. The plukenetia volubilis linneo shelling process and the special segment breaking device have the advantages that mechanical production of lukukenetia volubilis linneo shelling is realized, the production efficiency is greatly increased, raw material treatment capacity of 1.5-2 ton/hour is reached, the rate of perfect kernel of the kernels reaches over 95 percent, the product quality of the kernels is improved, the process and the device are suitable for large-scale industrial production and conditions are created for industrial development of the lukukenetia volubilis linneo and deep processing of a product.

**Número de publicación:** CNI01982197

**Fecha de solicitud:** 2010-10-27

**Título:**

**Solicitante:** XISHUANGBANNA TROPICAL BOTAN GARDEN CHINESE ACADEMY OF SCIENCE<sub>o</sub>

**Abstract:** The invention discloses a Plukenetia volubilis polypeptide oral liquid. Plukenetia volubilis kernels are soaked with water and then ground into thick liquid to obtain Plukenetia volubilis protein emulsion; the hydrolysates of the protein emulsion which is subject to twice enzyme destructions is filtered by a filter cloth of 500 meshes to obtain the Plukenetia volubilis polypeptide liquid; the Plukenetia volubilis polypeptide liquid is cooled to room temperature; flavoring additives are added to the cooled Plukenetia volubilis polypeptide liquid for even stirring, and the mixed Plukenetia volubilis polypeptide liquid is homogenized by a high- pressure homogenizer and then filled and sterilized to obtain the required Plukenetia volubilis polypeptide oral liquid.; Plukenetia volubilis polypeptide oral liquid provides a valuable way for depth development and utilization of the Plukenetia volubilis. Enzyme engineering technology is used to extract oligopeptide, polypeptide and other compounds in the Plukenetia volubilis kernels, and various nutrition constituents, such as dextrose, fructooligosaccharide, vitamin C and the like are added, thus enabling the oral liquid to be absorbed by human bodies and improving delivery value and digestibility and absorption of the protein.

**Número de publicación:** CNI01773047

**Fecha de solicitud:** 2010-03-01



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### BOLETÍN DE SACHA INCHI

Julio 2014

**Título:**

**Solicitante:** XISHUANGBANNA TROPICAL BOTAN Go

**Abstract:** The invention discloses a seedling nursing method of plukenetia volubilis linneo, which comprises the steps of seed collection, establishment of a germinating sand bed, seed treatment, seeding and germination acceleration, sand bed management, nutritive soil bagging, seedling transplant, nursery land management and the like, wherein mature seeds are picked, placed in warm water at the temperature of 40-50 DEG C, soaked, naturally cooled for 24 hours and then seeded and forced to germinate.; Because the plukenetia volubilis linneo bears more fruits, has a large amount of seeds and is convenient to pick seeds, when the seeds are utilized for nursing seedlings, the operation process is simple, the seedling nursing cost is low, the seedling outplanting rate is high, a large amount of seedlings can be cultivated within shorter time, and the seedling nursing method has good market application prospects.

**Número de publicación:** CNI01773038

**Fecha de solicitud:** 2010-01-27

**Título:**

**Solicitante:** XISHUANGBANNA TROPICAL BOTAN Go

**Abstract:** The invention discloses a cutting propagation method of plukenetia volubilis linneo, which comprises the following steps of: using a current grown vine of the plukenetia volubilis linneo as a cutting, shearing into a cutting slip, then soaking with a ABT root-inducing powder aqueous solution for 1-2 hours, cutting in a sand bed for 15-25 days, then transplanting to a seedbed, managing according to a nursery land routine when hardening seedlings, fertilizing and preventing and curing diseases and insect pests according to the growth state of the seedlings, hardening the seedlings for 25-35 days, then outplanting and planting in a field.; The invention not only can provide a seedling guarantee for the large-scale planting of the plukenetia volubilis linneo, but also can provide a propagation method for the breeding of the high-yield excellent individual plant of the plukenetia volubilis linneo, enables later generations to better keep the excellent characteristic of a maternal plant and has good market application prospects.