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DERMATOLOGICAL REJUVENATION TREATMENTS
VITAL NUTRIENTS AND BIO-SCIENCE INGREDIENTS FOR SKIN

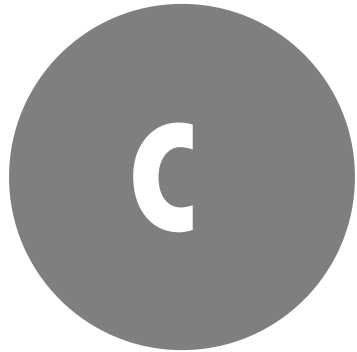
For professional treatment by experts.
Для профессионального лечения специалистами.
Pour un traitement professionnel par des experts.
Para el tratamiento profesional por expertos.
由专家进行专业治疗。
専門家による専門的な治療。
बशेषज्ञ द्वारा पेशेवर उपचार के लिए.

1.5ml solution x 5ea
Aseptically-treated & Sterilized



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(INCI: Paullinia Cupana Seed Extract)

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Efficacy & Impact

Calamine Definition

- It is a light red powder made of mixing zinc (zinc oxide, 99.5%) and iron oxide (0.5%). It is used as a soothing lotion or ointment in the medical field.
- Green Calamine is a type of Calamine obtained by mixing Chlorella extract with Calamine.
- Calamine originated from the Latin 'Calamina' means 'Cadmus earth'.

Calamine History

- In the 19th century, western medicine used Calamine in the form of liquid suspension as a soothing, antipruritic and astringent lotion for mosquito bites, as well as lacquer dermatitis and eczema.
- It is called "Lu Gan Shi" in China, and it is also recorded in the literature of the Song Dynasty (960~1279) and has a long history.
- After many decades since the middle of the 19th century, it is used as targeted area treatment agent for various skin irritation (lacquer dermatitis, itching, etc.) according to family experiences.

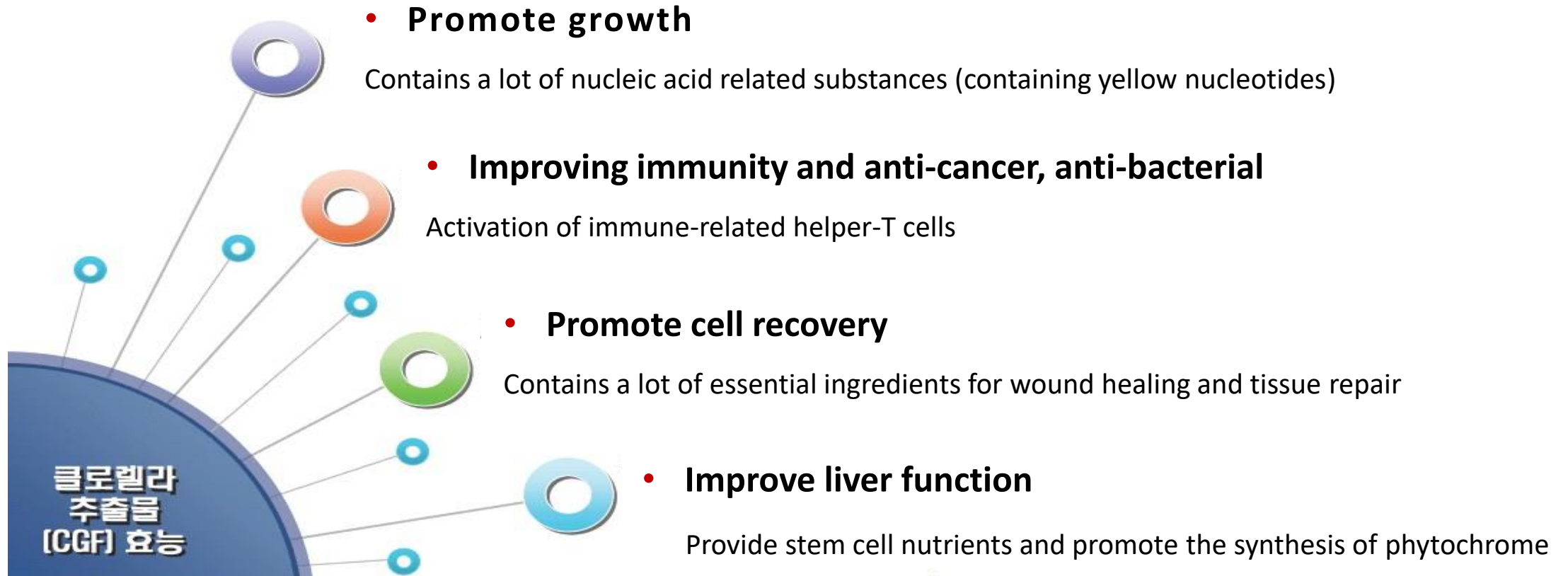
Calamine Efficacy & Impact

- While cooling the skin, it absorbs secretions to dry the skin surface and has an anti-inflammatory effect on acute inflammation after sun exposure.
- Itching inhibitor that relieves symptoms of insect bites, tingling, chickenpox, lacquer dermatitis, rashes, eczema, burns, etc.
- A mild disinfectant that can prevent infection caused by scratching.
- On September 2, 2008, the U.S. FDA reported that “the application of the general drug Calamine to targeted skin are is encouraged, it relieves itching caused by poisonous plants such as cashews.”

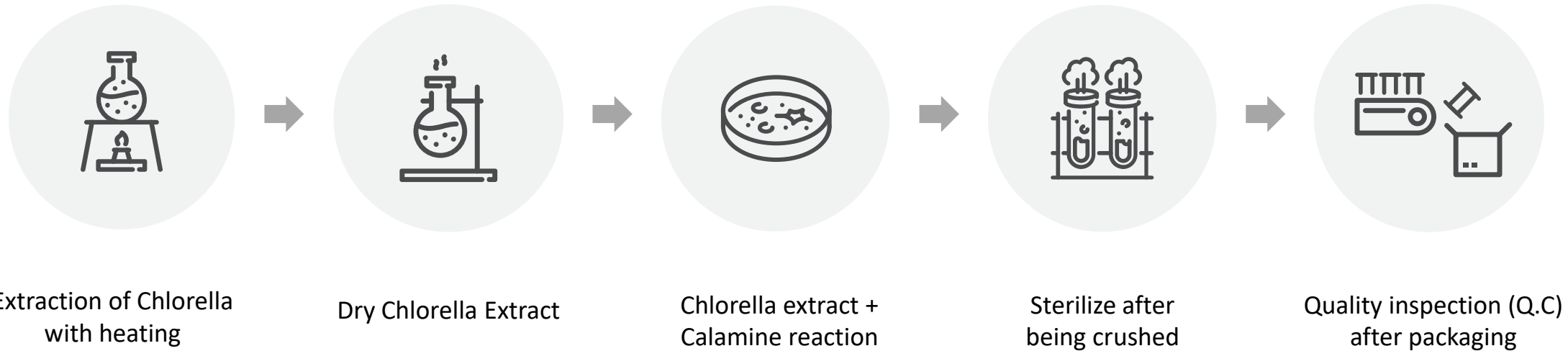
What Is “Chlorella Extract”?

- Chlorella is an organism that appeared on the earth after photosynthetic bacteria in the Precambrian period two hundred million years ago. It is the first plant with eukaryotic cells.
- Chlorella is a compound word. It is a combination of the Greek word chlorella which means "green" and the Latin word ELLA which means "very small things". Chlorella has 10 times more chlorophyll than other plants, and it is propagated by 4 divisions. It's a green algae - a single-celled plant with strong plant fecundity.
- Chlorella extract is an extract of Chlorella after heating, which is concentrated or dried by removing the insoluble substance of chlorella. It contains amino acids, proteins, peptides, carbohydrates, vitamins, minerals and nucleic acid substances. Among all these, nucleic acid substances are said to be the main components of the growth factor of chlorella.

Chlorella Extract Efficacy & Impact



Chlorella Calamine Manufacturing Process



Chlorella Calamine Efficacy & Impact

- It relieves itching & skin irritation.
- When applied to the skin, it will have a cooling effect when it evaporates which can divert your attention from itching phenomenon. It helps relieve sunburn.
- It can relieve or alleviate various symptoms but cannot cure these symptoms thoroughly.

Centella Complex

1.
Centella Definition

3.
Centella Complex
Efficacy & impact

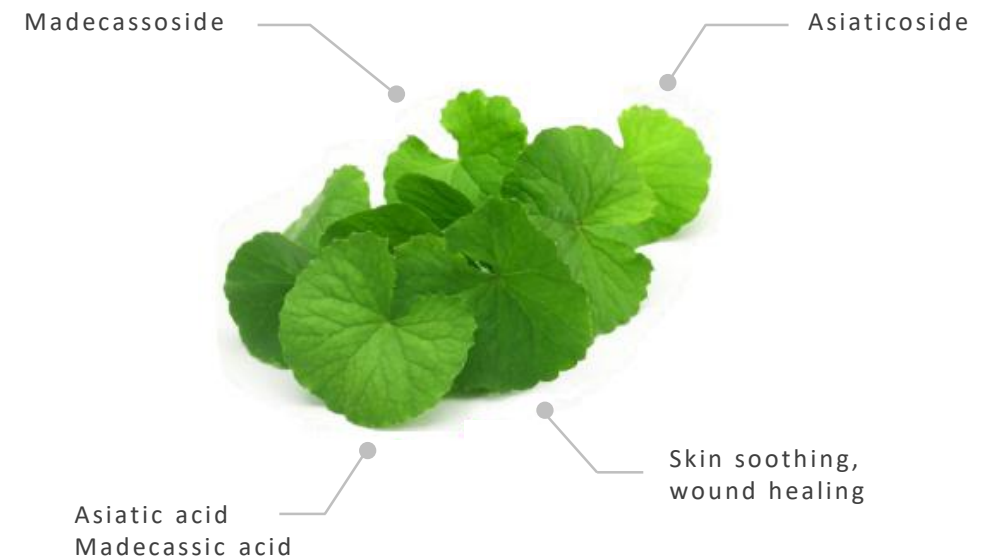
2.
Centella Complex
Ingredients

Centella Definition

- When a tiger is injured, it rubs the wound on the Centella asiatica to promote healing. Therefore it is also called "tiger grass".
- From ancient times to the present, it has been used as a traditional medicinal material to treat various skin diseases in India and Asia.
- The main ingredient of the plant-based wound healing agent "Madecassol" is Centella Asiatica.
- Centella Asiatica contains madecassoside, asiaticoside, asiatic acid, and madecassic acid.
- Has excellent soothing effect on irritated skin and healing wounds

ICID: Centella Asiatica Extract

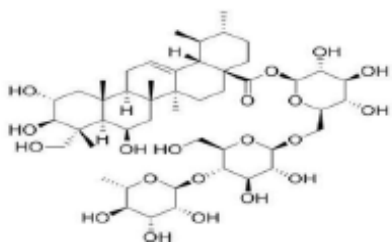
Name used in China: CENTELLA ASIATICA EXTRACT



Centella Complex Ingredients

- Madecassoside

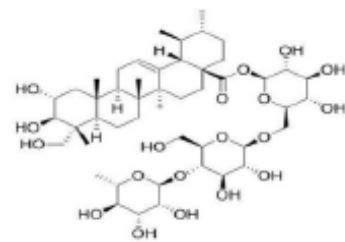
-ICID:Madecassoside
-Name used in China:
Madecassoside



-Centella Asiatica extract has a skin regeneration effect and high stability
-Can manage subtle skin damage of dry skin

- Asiaticoside

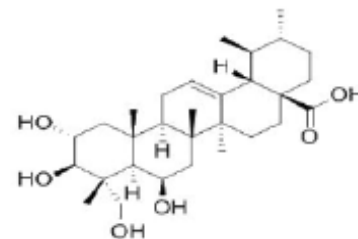
-ICID:Asiaticoside
- Name used in China:
Asiaticoside



-One of the ingredients extracted from Centella Asiatica, helps increase skin's self-vitality, improve elasticity, and make skin smooth

- Madecassic acid

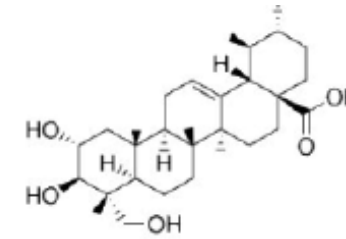
-ICID:Madecassic acid
- Name used in China:
Madecassic acid



-One of the ingredients extracted from Centella Asiatica, helps prevent skin damage and repair damage

- Asiatic acid

-ICID:Asiatic acid
-Name used in China:
Asiatic acid

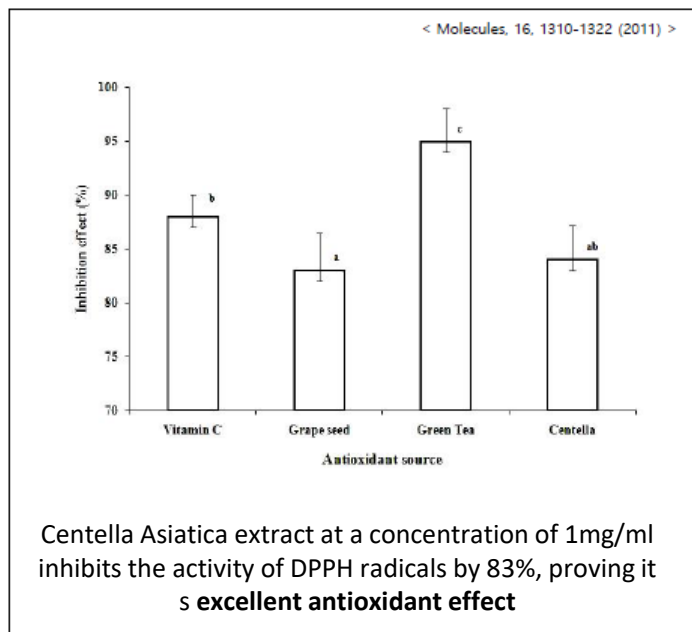


One of the ingredients extracted from Centella Asiatica, helps strengthen skin's moisturizing film, skin barrier, and protect the skin

Centella Complex Efficacy & Impact

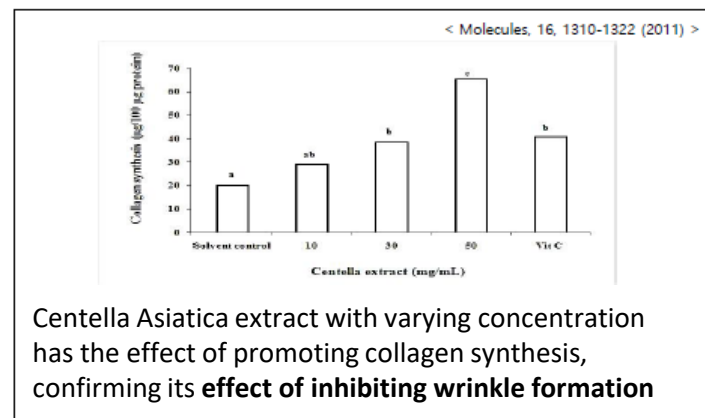
- Antioxidant effect

Inhibit cell damage caused by oxidation & prevent skin aging



- Anti-wrinkle effect

Promote the synthesis of collagen - the protein - responsible for skin elasticity, thereby inhibiting wrinkles, cell damage caused by oxidation, and preventing skin aging



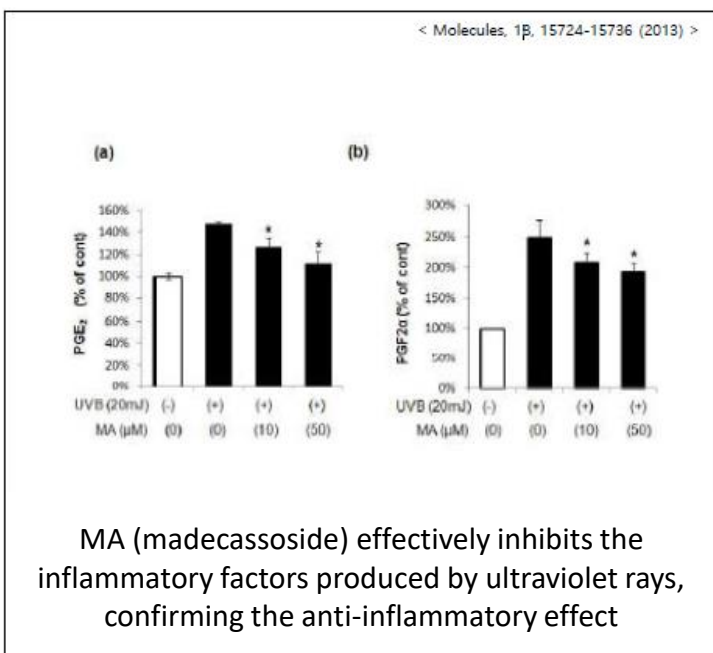
< Planta Med, 60(2), 133-135 (1994) >

Collagen ng/10000 fibroblasts /48 hours	medium+ DMSO	(1) madecassic acid 4.5 µg/ml	(2) asiatic acid 4.5 µg/ml	(3) asiaticoside 6 µg/ml	mixture (1)+(2)+(3)
Secreted	470 ± 97	1362 ± 82 (S)	1597 ± 199 (S)	1557 ± 245 (S)	1769 ± 145 (S)
Cell associated	183 ± 43	158 ± 29 (NS)	150 ± 19 (NS)	140 ± 37 (S)	133 ± 30 (S)

Three terpenoids present in Centella Asiatica compounds and their mixtures can promote the increase of type 1 collagen, confirming the **effect of improving wrinkles**

Centella Complex Efficacy & Impact

- Anti-inflammatory effect
Inhibit inflammatory cytokine to keep clean



- Healing effect
Helps the regeneration of damaged skin through the proliferation activity of HDF (Human Dermal Fibroblast)

< Univ Med, 34(2), 96-103 (2015) >

Fibroblast proliferation (%)	Treatment													
	Asiaticoside							Retinoic acid						
	I	II	III	IV	V	VI	p	I	II	III	IV	V	VI	p
24 hours	149.45	150.00	71.73	163.04	137.50	127.72	0.237	144.02	30.43	93.48	132.06	154.34	135.32	0.007
48 hours	139.37	150.00	71.74	108.69	137.50	127.72	0.285	144.02	30.43	93.48	132.06	102.89	135.32	0.005
Type I collagen synthesis (μg/mL)														
24 hours	0.935	0.930	0.930				0.465	0.915	0.940	0.940				0.465
48 hours	0.940	0.940	0.935				0.465	0.940	0.940	0.935				0.465
Type III collagen synthesis (μg/mL)														
24 hours	0.367	0.443	0.406				0.465	0.389	0.341	0.376				0.465
48 hours	0.527	0.517	0.497				0.465	0.622	0.479	0.418				0.465

Test compound concentration for HDF proliferation (mg/L) : I : 0.3125; II : 0.625; III : 1.25; IV : 2.50; V : 5.0; VI : 10.0
Test compound concentration for collagen synthesis (μg/mL): I : 0.025; II : 0.5; III : 0.1

Asiaticoside extracted from Centella Asiatica has higher HDF proliferation activity than retinol (Retinoic acid), confirming its anti-inflammatory effects.

Guarana Extract

(INCI: Paullinia Cupana Seed Extract)

1.
Guarana Definition

3.
Paullinia Cupana Seed Extract
Efficacy & Impact

2.
Guarana's
Pharmacological Effects &
Effective Properties

What is Guarana?

- Guarana is a plant that grows in the special climate and soil of the Brazilian Amazon forest jungle. The tree can be up to 10 meters high, with soft bark, covered with hair, and large and fragrant flowers. The tree has a soft and straight stem, 5 oval-shaped leaves, short-stemmed flowers, grape-sized fruits and 1 to 2 Aesculus seeds. This seed is ground into a 100% natural food-Guarana powder.
- Guarana fruit contains three times more caffeine than coffee, and tannins give it a bitter taste. It also contains saponins, starch, gum, volatile oils, and bitter green non-volatile oils. Guaranine, one of the active ingredients of guarana, is known to be the same ingredient as caffeine. The seeds contain about 3~5% of guaranine, about 0.25% of theophylline, and about 0.02~0.06% of theobromine.

Guarana's Pharmacological Effects & Effective Properties

- **Beneficial for brain activity**

The natural caffeine contained in guarana is good food for activities such as studying because it has the effect of activating the function of brain cells and aids in the ability to recognize something.

- **Helps relieve stress**

Guarana contains caffeine. When consumed an appropriate amount, it gives a pleasant mood, eliminates harmful toxins from the human body, and helps relieve stress. But Guarana contains large amount of caffeine, thus excessive intake might be harmful to the body.

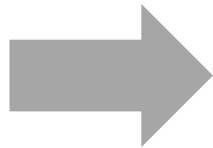
- **Help prevent & treat vascular diseases**

Guarana has the effect of promoting the production of HDL (High Density Lipoprotein) in the liver. HDL can eliminate harmful cholesterol, purify the arteries, thereby promoting blood circulation and effectively preventing vascular diseases.

- **Help prevent amnesia**

The substance of HDL has the effect of controlling the production of biochemical protein MRO, and MRO is involved in human aging which can cause amnesia, concentration disorder, etc.

Paullinia Cupana Seed Extract Efficacy & Impact



Prevent wrinkles
Prevent aging
Promote blood circulation
Promote metabolism
Remove waste
Skin elasticity
Antibacterial



Vita-K-Some

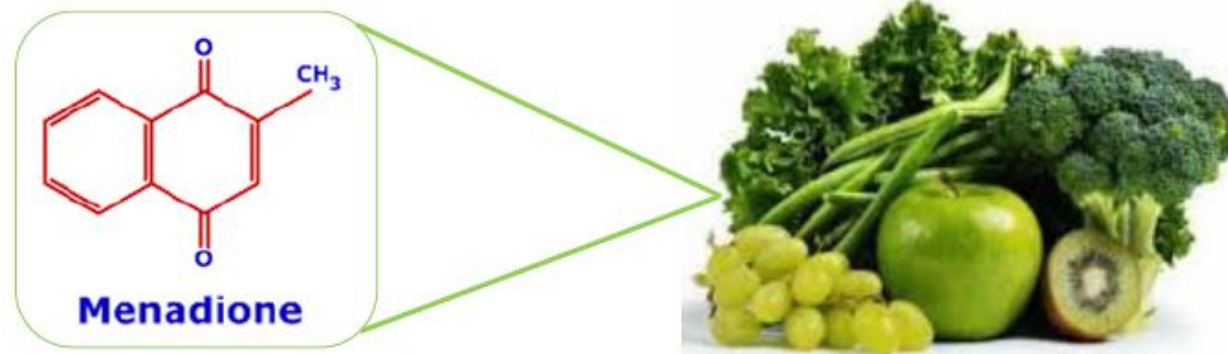
1.
Vitamin K
Definition

3.
Vita-K-Some
Definition

2.
Vitamin K
Efficacy & Impact

Vitamin K Definition

- Vitamin K is a fat-soluble vitamin **necessary for proper blood coagulation**.
- It is mostly found in green vegetables with leaves such as broccoli, spinach, and curly kale.
- Helps strengthen the capillary wall and **promote blood circulation**. When it is **lacking, congestive skin that with obvious capillaries** is easily formed.



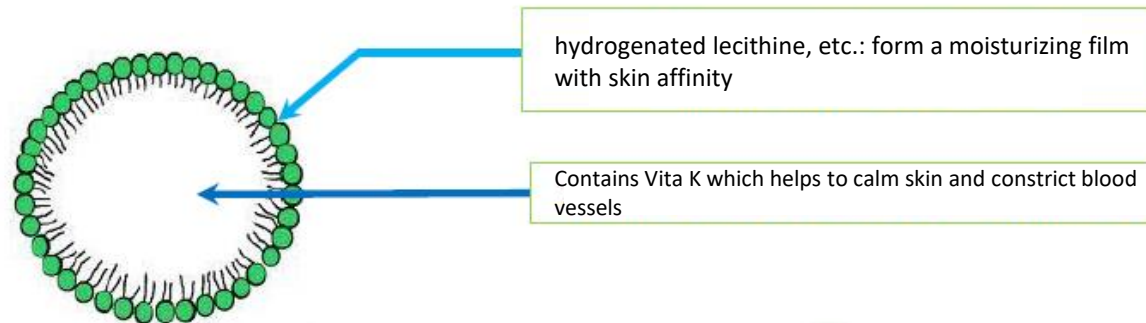
Vitamin K Efficacy & Impact

- It is suitable for skin that is thin and shows internal skin texture which cause **sensitive & hot skin**.
- Reduces dark circles under the eyes and facial flushing disorders.
- Main effects: **shrink & strengthen capillary function, remove skin congestion and bruises, promote blood circulation, increase oxygen supply.**
- Uses: improve telangiectasia, congestive skin, sensitive skin.



Vita-K-Some Definition

- Contains vitamin K that reduces and strengthens capillaries.
- Most are composed of **amphipathic compounds of natural origin** that can be dispersed in water.
- Monolayer of **Vita-K-Some** is composed of **one or more compounds that can soften Membrane (cell membrane) in the best form.**



THANK you
