

# PEGASUS GINSENG

Ginseng, manufactured by Pegasus Pharmaceutical Co. Ltd. is a type of functional food, which is made from Canadian *Panax quinquefolium* Linn (North American Ginseng). Ginsenosides extracted and refined with modern scientific approaches have evident health care effects on angiocardiology.

The Product can delay or prevent the onset and development of cardiac deficiency caused by infarction by shrinking the area of cardiac infarction, abating or deferring the attenuation of circulatory function after the cardiac infarction and protecting the cardiac contraction and diastolization. Moreover, it can increase cardiac nutritional blood flow, decrease obviously the myocardial oxygen consumption and the index of myocardial oxygen consumption, dilate the coronary artery, elevate HLD-C and lower LDL-C of hypercholesterolemia, facilitate RNA synthesis of hepatocyte, enhance the function of male sex gland and adrenal cortex, regulate the immunologic function of the body, prevent ageing and work as a true adaptogen etc.

## [Composition • Property]

The ginsenosides in each pill of Ginseng is no less than 100mg.

Type	Content of Panaquilon in each pill	Color	Diameter (mm)	Length (mm)	Weight (mg)
capsule	no less than 100 mg	whitelike	7	17	160

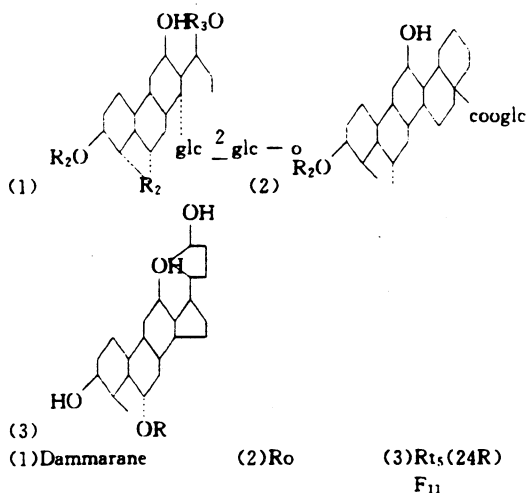
Name: Ginseng

Main ingredients: *Panax quinquefolium* Linn general ginsenoside.

Chemical constituent: *Panax quinquefolium* Linn

general ginsenoside includes: ginsenoside dammarane Rb1, Rb2, Rb3, Rc, Rd, Rh2, RAO, Re, RF, Rg1, Rg2, Rg3, Rh1, oleanane Ro and octilong RT5, F11 and etc.

Chemical formula: (omission)



Nature: The product without the capsule wrap is whitelike powder, Bitter, Hygroscopic. Freely soluble in methanol, soluble in water or ethanol, insoluble or hardly soluble in chloroform, ether, benzene, etc.

Type		R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>
20's pro-topanaxadiol	-Rb <sub>1</sub>	glc 2glc-	-H	glc 6glc-
	-Rb <sub>2</sub>	glc 2glc-	-H	glc 6ara(p)
	-Rb <sub>3</sub>	glc 2glc-	-H	glc 6xy
	-Rc	glc 2glc-	-H	glc 6ara(f)
	-Rd	glc 2glc-	-H	glc -
	-Rh <sub>2</sub>	glc-	-H	-H
	-RAO	glc 2glc2glc	-H	glc 6glc-
20's pro-topanaxatriol	-Re	-H	glc 2rha	glc
	-Rf	-H	glc 2glc-	-H
	-Rg <sub>1</sub>	-H	-glc	-glc
	-Rg <sub>2</sub>	-H	glc 2rha	-H
	-Rg <sub>3</sub>	-glc	-H	-H
	-Rh <sub>1</sub>	-glc	-H	-H
	-Rh <sub>2</sub>	-H	-glc	-H
Oleanane RE				
Octilong RT <sub>5</sub>		R=glc		
F <sub>11</sub>		R=glc 2rha		

## [Function]

The Product can delay or prevent the onset and development of cardiac deficiency caused by infarction by shrinking the area of cardiac infarction, abating or deferring the attenuation of circulatory function after the cardiac infarction, protecting the cardiac contraction and diastolization; moreover, it can increase cardiac nutritional blood flow, decrease obviously the myocardial oxygen consumption, dilate the coronary arteries, elevate HLD-C and lower LDL-C of hypercholesterolemia.

## [Indication]

- Primary cardiac arrest
- Exertional or spontaneous angina pectoris
- Acute or remote cardiac infarction
- Ischemic cardiac failure

## [Application Dosage]

Taken with water. 2-3 times /day for adults, 1-2 pills each time.

Dosage may be adjusted according to the individual condition.

## [Potency • Pharmacological property]

- Anti-cardiac ischemia test

(1) The Product can shrink the infarction area, debase serum CK and LDH activity in the dogs suffering from acute cardiac infarction. It is proved to have obvious protection effects on the ischemic myocardium.

(2) The Product can debase the infarction area on the experimental cardiac infarction of rabbits and modify the ischemic change of polyheterodesmotic electrocardiogram on the anterior chest.

The examination results of thrombus elastic diagram show the Product can abate the development of blood hypercoagulable state after infarction, reduce the forming speed of thrombin and deplete the formation of hemaleucin.

(3) The Product can protect the big rats from cardiac damage caused by cardiac ischemia induced by isoprenaline.

(4) The Product can obviously prolong the life of small rats under isoprenaline atmospheric oxygen deficiency and enhance the cardiac

ability to endure oxygen deficiency.

•Tests of coronary circulation and cardiac oxygen metabolism

(1) The Product can greatly increase the cardiac blood flow of dogs under anesthetic thoracotomy, decrease the coronary resistance, and decrease the index of cardiac oxygen consumption and cardiac muscular exhaustion.

(2) The Product can improve the cardiac <sup>88</sup>Rb uptake rate of small rats, and therefore has proven that the product can increase the cardiac nutritional blood flow.

•The effects on the heart function and hemodynamics

(1) The Product has an inhibiting action on the heart function and hemodynamics of dogs under anesthetic thoracotomy. It can not only depress the blood pressure evidently for quite long period of time but also lower the left ventricular pressure and its highest rising rate in the left ventricle.

(2) The Product can, if taken by an infarction dog, mitigate or delay the circulatory attenuation after the cardiac infarction, and protect the cardiac diastolic and contractile functions, therefore it can delay or prevent the onset and development of cardiac deficiency after infarction.

•Other pharmacological tests

The Product can evidently reinforce the ability of the hypercholesterolemia big rats to oppose the organic lipid peroxidation and to product free radicals, so as to reduce the lipid peroxidation damage and prevent the onset of scleratheroma.

### [Primary Clinical Research]

The chemopharmacodynamic, pharmacological and toxicologic results of the experiments conducted on 300 testees have shown the Product has a good effect (87.5%) on 16 mild coronary cases; It can debase the general cholesterol, triglyceride and b – lipoprotein of hyperlipemia patients. Besides, it can reduce the content of plasma – peroxidized lipids, inhibit the platelet aggregation, debase plasma TXA, increase TG12. After taking the medicine, the general conditions of all the testees are improved and no adverse side effects have been found.

Systematic clinical observation on 40 coronary heart disease patients have been carried out in Institute of Gerontology, a subsidiary of Xiyuan Hospital of National Research Institute of Chinese Tradition Medicine, In comparison with DiAo Xinxuekang Capsule. Ginseng's obvious effect ratio is 56.7% and general effect ratio is 90%. while DiAo Xinxuekang's obvious effect ratio is 30% and general effect ratio is 50%. Based on electrocardiograms, Ginseng's general effect ratio is 56.7%, while DiAo Xinxuekang 50%. As for the improvement of the symptoms recognized by the patients. Ginseng's ratio is 93.3%, while DiAo Xinxuekang 70%. Ginseng has obvious effect to lower the TC index, which is better than that of DiAo Xinxuekang Capsule.

### [Acute Toxicity]

LD50 in oral administration is not measured while the small rat is infused with the Ginseng to the stomach. Its highest tolerance dose is more than 8g/kg. LD50 for the subcutaneous injection is 793.6mg/kg. 95% of its fiducial limit is 687.5–916. 0 mg/kg.

LD50 for intravenous injection in random progress method is 288.2mg/kg; LD50 in superoinferior method is 311.9mg/kg, and its 95% fiducial limit is 303.4–363.0mg/kg.

#### [Chronic Toxicity]

Take 80 Winstar big rats (male and female half to half). Infuse the Ginseng to the stomach in the regulatory dosage for 90 consecutive

days. It turns out that the Product is harmless. There is no pathological change caused by damage on the heart, liver, kidney, spleen, adrenal cortex and sex glands under the microscope.

### [Package]

Ginseng: The ginsenoside in each granule is more than 100 mg.  
60 capsules/bottle,  
24 capsules/box.

Storage: Sealed, kept in cool, dark and dry place.

Expiry: See the instructions on the wrapper.

### [Reference]

(1) Yang Chunlong and Yang Guizhen.

The Immunity Effect of Panax Quinquefolium Linn Foliage and Stems General Ginenocide on Internal and External Body of Small Rats. "Immunity Magazine of China" 1992 8(3) 188

(2) Shao Chunjie and Hsujingda

The Quantitive Measurement of Ginenocide in TLC Scanning Method and Colorimetric Method "Chinese Herbal Medicine" 1982 13 (2) 19

(3) Wang Guide and others

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(4) Zhal Guangdong and others

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(5) Huang Decai and others

The Separation of Micro - serum Protein and the Enzymic Assay of Its Cholesterol Content

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(6) Zhou Xiang and others

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(7) Sun Ruiyuan and others

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"People's Health Publishing House" 1987 P167-176

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