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	Nattokinase (Nattoesse HYPERLINK "http://www.nattokinase.co.jp/en/natto.html"TM
ALC: NOT ALC	HYPERLINK "http://www.nattokinase.co.jp/en/natto.html") is a
	Food and Safe.
	Nattokinase Intake Before and After





Length of the blood vessels from heart to peripheral blood vessels in human body is said to be 100,000 Km (2.5 times of the earth equater). Disturbance of the blood flow occures not only in

arterial vessels but also in peripheral vessels. During a period before dawn and 3 hours after waken, the body function is down and the blood flow turns slow. Myocardial infarction and cerebral infarction are most likely to occure during such the period. Curiously, these diseases also occure statistically 10% higher on Monday morning than other week days. It may be due to the stress.

Orally intakes of natto essence containing nattokinase lead to reduce the blood clots and prevent its accumulation in the blood vessels as well as make the blood circulation smoother. Consequently more nutrients and oxygen are fed to cells and enhance the systemic metabolism and functions. Nattokinase is good for anyone who cares a healthy life and longevity.

What are the Benefits of Natto Essence Containing Nattokinase?	ТОР

Recommended oral intake of Nattokinase (Nattoesse™) is 2000 IU per day for preventive purpose in comparison with 200,000 IU of Urokinase for acute thrombosis treatment at hospital. The capsule is very easy to take orally and is in fact inexpensive. A capsule contains 1000 IU (0.1g) of Nattokinase equivalent to 100g of natto. 2~3 capsules are sufficient for a day.

Nattoesse is powder which can be applied to various food supplements in combination with other potential food materials.

In a prophylactic aspect of thrombus, the capsules are suggested to take in the evening or shortly before going to bed in order to maximize the effects of prevention and lysis as throumbus tends to occur during the sleeping time.

TOP

Natto Essence Containing Nattokinase vs Urokinase

Natto essence containing Nattokinase (Nattoesse™) can enhance fibrinolysis activity of which effect lasts 4 hours to 8~12 hours by oral administration. Since nattokinase does not display a TPA antigenicity, clinical test results with 12 healthy volunteers and animal tests indicate that nattokinase is absorbed from the plasma or lymph and is confirmed to enhance the plasma fibrinolytic activity and lysis of thrombus. Natto and nattokinase are very safe and easy to take since there are more than 2000 years history in Japanese diet. The test results obtained indicate that nattokinase represents a significant food therapy not only for treatment of the embolism but for prophylaxis of the heart &vascular diseases.

For treatment of thrombosis, urokinase, streptokinase, TPA (Tissue Plasminogen Activator), and Pro-urokinase are currently being used clinically by i.v. injection. Soon after i.v. administration, these enzymes are degraded or eliminated in the kidney and liver.

A half-life of these enzymes is very short (less than 20 minutes) so that continuous i.v. infusion is required in large volume for treatment of thrombolysis. It is also clinically known when the infusion with a rush is taken place in i.v. administration, a rebound effect: a transient ELT prolongation may occur.



Nattokinase (Nattoe	esse TM) is a Food and Sa	ıfe	(

Natto has been eaten more than 2000 years and is still being eaten in Japan. 100g of natto contains 0.1g (1000IU) of Nattokinase. 100g of natto is packed for serving a meal. Nattokinase densely exists in sticky substance covering the surface of natto beans. Natto essence containing Nattokinase mostly derives from the sticky substance. It is a natural product and is not enriched nor pure enzyme. In an acute toxicity test with nattokinase in mice, no abnormal behavior of the mice was observed. The results indicate very low acute toxicity: LD50 could be considered above 2g/Kg. Mutagenicity test was negative.

OP



LBA Method is to visualize the live-blood on a TV screen as it is in the body. Most of blood vessels in human consist of 99.9% peripheral vessels.

Diameter of some periperal vessels are 0.005 mm which is smaller than $0.007 \sim 0.008$ mm of red blood cells. Red blood cells are flowing through the peripheral vessels by squeesing the cells. It was believed that the blood was circulating smoothly all over the body. Since the LBA Method has been employed, we find in the most cases (n=200) that the blood streams are not smooth but are muddy blood.

Disadvantage of the sticky blood is to disturb smooth blood flows with not only oxygen and nutrients but also drug component to the organs and brain. Furthermore such sticky blood can be a substantial cause of the sclerosis in all the circulatory system. Smooth, clear stream of the blood diagnosed by LBA Method is a milestone for our healthy life.

