

Japan Bio Science Laboratory

JBSL — The pioneer of NSK-SD® nattokinase.

How did we discover nattokinase?

Well, a thousand years of research really helped.

Natto, the traditional Japanese food made from fermented soybeans was invented in 1083 according to legend. It happened when Japanese soldiers inadvertently fermented boiled soybeans. They were out of provisions and were hungry, so they ate the fermented soybeans. They discovered that they liked the taste and natto was born.

Nattokinase is a unique enzyme discovered in 1980 by Japanese researchers at Chicago University. They were looking for a natural substance that would promote normal blood clotting. Well, they found one when they isolated a specific enzyme in natto. They named the enzyme nattokinase.

In 1995, we perfected a production technique for manufacturing our genuine nattokinase, NSK-SD. Along the way we were awarded two Japanese patents and three U.S. patents for this remarkable enzyme.



RESEARCH

Research suggests that nattokinase is an effective supplement to support cardiovascular health. Preliminary evidence suggests that nattokinase may promote normal blood pressure, reduce whole blood viscosity and increase circulation. This thrombolytic enzyme not only degrades fibrin directly and promotes normal clotting, but also



activates pro-urokinase and enhances the production of tissue plasminogen activator (t-PA) while reducing plasminogen activator inhibitor type I (PAI-1).

The potential health benefits of NSK-SD are numerous. More than 25 years of research and scientific testing suggest the following benefits:

- **Strong thrombolytic activity – promotes arterial health**
- **May promote normal blood pressure**
- **Significant reduction of whole blood viscosity**
- **Increase in blood circulation**
- **Inhibits platelet aggregation**
- **Reduction of Plasminogen Activator Inhibitor Type 1 (PAI-1)**
- **Activates Pro-Urokinase**
- **Promotes normal clotting**
- **Promotes overall cardiovascular health**



SAFETY

Our NSK-SD has been the subject of the following comprehensive safety studies and in vivo and in vitro clinical studies:

- Oral 28-day repeated dose toxicity study in rats
- Oral 90-day repeated dose toxicity study in rats
- Reverse-mutation assay in bacteria
- Chromosome aberration test in cultured mammalian cells
- Pathogenicity test
- Oral 28-day human safety study (Double-blind study)

The superiority of NSK-SD nattokinase is undisputed. Manufactured and refined by Japan Bioscience Laboratories for over 25 years, clinical tests prove that NSK-SD:

- Is completely safe for human use and supports cardiovascular health
- Promotes normal blood clotting
- Has the highest proven potency of any vitamin K2-free nattokinase on the market
- Is recognized by the JHFA (Japan Health and Nutrition Food Authorization) and JNKA (Japan Nattokinase Association) as authentic nattokinase
- Preliminary evidence suggests that nattokinase may help support normal blood pressure
- While a 26-week safety study suggests that nattokinase is safe when taken with Coumadin,[®] caution should be applied and persons taking Coumadin should consult their physician before taking nattokinase

EFFICACY

Other products claim to be nattokinase, but only NSK-SD:

- Has the highest potency available > 20,000 EU./gram
- Contains less than 1 ppm vitamin K2
- Is the most clean, white, uniform and deodorized powder available
- Is Non-GMO, Vegetarian and Non-Irradiated

These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.



ABOUT JBSL

Since its foundation in 1974, JBSL has been developing and manufacturing functional health food products under the corporate belief of *the harmony of human beings and Mother Nature*. Today, the safety and quality of food products are of higher concern than ever before. That is why our quality policy is *the pursuit of safety from the viewpoint of the consumer*.

Our current products include NSK-SD, Ashitaba, Sesame Minerals and Biozyme. We manufacture these products in our factories in Kyushu and Kyoto, Japan. Our corporate headquarters are located in Osaka, Japan. In these offices and factories we continue to invest in research and development to bring to market the functional health foods of the future.

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