

High blood cholesterol level:

the first risk factor for coronary heart diseases



Studies have shown that a 10% decrease in blood cholesterol level can reduce the risk of cardiovascular disease by 19% to 54% depending on a person's age.

Consumption of 1.5g to 2.4g of plant sterols per day **can lower** LDL-Cholesterol by 7-10%



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Phytosterols could save Europe €26 billion in heart disease health costs

By daily consumption of 1.7g of phytosterols by the millions of adults aged 55 and over in the EU with severe hypercholesterolemia





Phytosterols Market size generated over USD 500 million revenue in 2015 and to reach USD 1.09 billion by 2024



Plant sterols mechanism

more cholesterol absorbed higherblood cholesterol levels





less cholesterol absorbed lowerblood cholesterol levels

LIPOPHYTOL

Problems with formulation

- Plant sterols are insoluble in water X and lipids
- K Challenging incorporation
- Lower cholesterol reduction efficacy

Inefficient dispersion in food and gut

Low concentration of sources in the market

The solution



Water dispersible plant sterols for cholesterol reduction

Efficacy



Efficient cholesterol reduction



Readily dispersible



WATER DISPERSIBILITY

Benefits

1. Cholesterol reduction





Dairy products, yogurts, soya drinks, rye bread, cheese type products, dietary supplements, etc.

LIPOPHYTOL[™] microcapsules significantly reduced the concentration of VLDL+LDL cholesterol in serum compared to the control

2. Tryglicerides reduction in hamsters



Results indicate that LIPOPHYTOL[®] microcapsules might enhance the activity of phytosterols against hypertriglyceridemia

3. Protective effect against aortic lesions



LIPOPHYTOL[®] microcapsules resulted in reduced damaged aorta, an indication of ability to protect arteries

Atherosclerosis damage test indicated that LIPOPHYTOL[™] microcapsules was the most effective in protecting mice arteries from the harmful effects of the high fat diet.

> For more information visit, www.lipofoods.com



