



Dermica | L-Carnitine

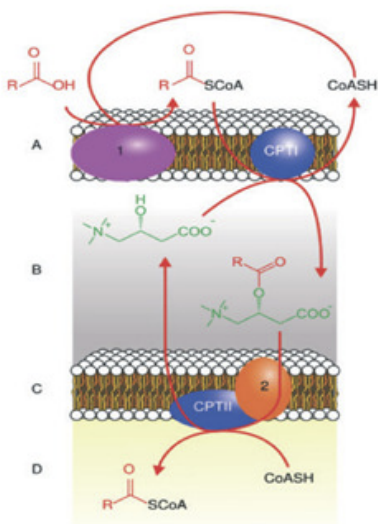
Anti-cellulite solution

Ingredients: Aqua, Carnitine, Potassium Phosphate, Sodium Hydroxide.



PROPERTIES

Carnitine is known for its cellulite-combating properties. It is synthesised in the liver, kidneys and brain from two essential amino acids: lysine and methionine, but for proper synthesis and use, iron, vitamin C and B vitamins are also needed. The process is as follows:



1. The enzyme carnitine palmitoyltransferase I (CPTI), located on the outer mitochondrial membrane, cleaves the coenzyme A from the acyl-CoA molecule, while binding available carnitine in the intermembrane space to produce acylcarnitine; the CoA is liberated and can go out into the cytosol to catalyse another fatty acid.
2. Then, a carrier protein called carnitine-acylcarnitine translocase, located on the inner mitochondrial membrane, transports the acylcarnitine into the mitochondrial matrix, where carnitine palmitoyltransferase II (CPTII) cleaves the carnitine and binds a CoA molecule in the matrix to the fatty acid; thus regenerating the acyl-CoA.
3. Carnitine is returned to the intermembrane space by the translocase and is able to react with another acyl-CoA molecule, repeating the whole cycle.

BENEFITS

L-Carnitine transports fat from the exterior of cells to inside them, specifically to the mitochondria, where energy is released.

Benefits of L-Carnitine

o Uses energy. Weight loss can be increased if the energy released inside the cells is used by exercising daily.

🍷 Balances cholesterol levels. Due to the increase in HDL and reduction in LDL.

🍷 Healthy heart. Because blood cholesterol levels are controlled, the risk of arteriosclerosis is reduced.

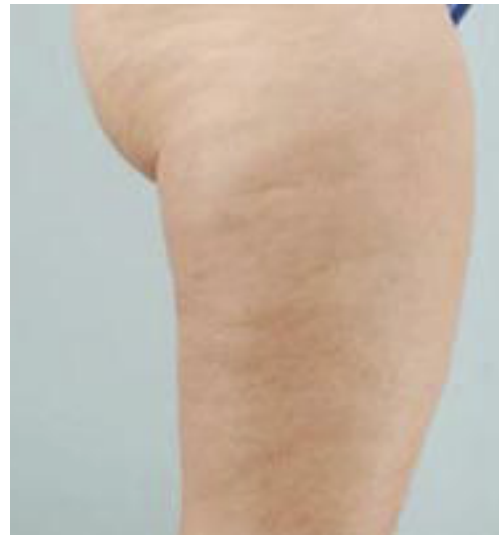
🍷 Tones muscles. When exercising, L-Carnitine helps tone muscles due to the burning of fatty acids in the mitochondria.



CLINICAL RESULTS



BEFORE



AFTER



BEFORE



AFTER



BEFORE



AFTER



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