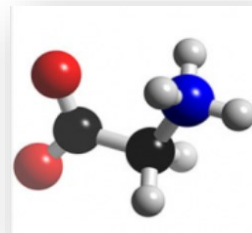


L-Carnitine Base USP

INCI: Carnitine

CAS Numbers: 541-15-1



Description:

L-Carnitine is biosynthesized from the amino acids lysine or methionine. Vitamin C is essential to the generation of L-Carnitine. It is required in all living cells for the transport of fatty acids from the cytosol into the mitochondria during the breakdown of lipids (or fats) for the generation of metabolic energy. It also has antioxidant activity. On skin, with its hygroscopic nature, it has a pronounced moisturizing effect, when added to moisturizing creams and lotions.

Technical Data:

<u>Physical</u>	<u>Specification</u>
Appearance	White crystalline powder
Identification	IR
Specific rotation	-29.0° ~ -32.0°
pH	5.5 ~ 9.5
<u>Composition</u>	
Assay	97.0% ~ 103.0%
Water content	NMT 4.0%
Residue on ignition	NMT 0.5%
<u>Safety</u>	
Heavy metals	NMT 0.001%
Chloride	NMT 0.4%
Limit of sodium	NMT 0.1%
Limit of potassium	NMT 0.2%
<u>Microbiology</u>	
Total plate count	≤ 1,000 cfu/g
Yeast and mold	≤ 100 cfu/g
E. coli	Negative
Salmonella	Negative

Tested per USP35

Applications:

When used as a supplement, L-Carnitine promotes blood flow which increases energy, metabolizes fat, stimulates the memory and mental focus, and helps build strong muscles. Used in cosmetic contouring creams and those targeting cellulite control. L-Carnitine prevents and alleviates deleterious skin conditions such as varicella scarring, wrinkle formation and sunburn peeling.



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