



Technical Data Sheet

Product Name: L-carnitine

Grade: Food grade and Cosmetic grade

CAS NO. : 541-15-1

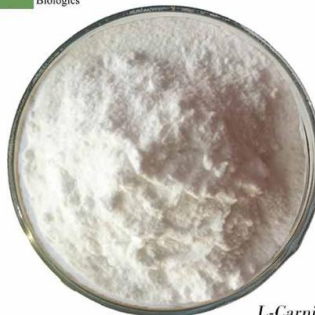
Synonyms: Vitamin BT, L-(-)-Carnitine

Appearance: White crystalline powder

Molecular Formula: C₇H₁₅NO₃

Molecular Weight: 161.20

Water Solubility: 2500 g/L (20 ° C)



L-Carnitine
CAS NO. : 541-15-1

L-carnitine helps the body produce energy. It is important for heart and brain function, muscle movement, and many other body processes. L-Carnitine is an amino acid composite - one of the building blocks of protein. It is known to increase the number of androgen receptors in muscles. These receptors allow muscle to utilize testosterone resulting in an enhanced ability to build muscle. It also enhances the body's ability to metabolize fat thereby enhancing energy levels. For body builders, this means faster muscle building and for dieters, the combination of L-Carnitine and exercise enhances fat burning. L-Carnitine has become a popular supplement in the fitness industry and is now available in both oral and injectable supplements. L-Carnitine benefits health, along with being used to turn fat into energy. To achieve the purpose of weight loss, Lowering triglycerides, Improving cognitive abilities, memory boost and Natural antioxidant, L-Carnitine is used in drugs, Nutrition and health care products, Energy drinks and feed additives.

Application of L-Carnitine:

1. Energy supplement

L-carnitine can promote the oxidation of fat in the body, provide sufficient energy for the body, and is beneficial to the improvement of exercise endurance and explosive power. If you use octadecyl alcohol and L-carnitine, the effect is better. A common method is to add L-carnitine to the athlete's drink for reinforcement.

2. Weight loss

The main physiological function of L-carnitine is to promote the conversion of fat into energy. L-carnitine can reduce body fat and reduce body weight without reducing water and muscle. Everyone usually makes L-carnitine into coffee to help reduce weight.



3. Nutritional supplements

Sufficient energy plays a protective role for the cells. When the body is aging, the energy supply of the cells is insufficient. The L-carnitine supplement can not only provide enough energy, but also keep the immune system strong and avoid some diseases.

4. Drugs

L-carnitine also increases the level of high-density lipoprotein in the blood, helps remove cholesterol from the body, protects blood vessels, lowers blood lipids, and lowers blood pressure in hypertensive patients. Increasing or replenishing the intake of L-carnitine can regulate fat metabolism, promote the oxidation of fat, and fundamentally eliminate excess or accumulated fat in the body or organs.

5, Skin care

In skin care, L-carnitine is a favored ingredient for several purposes. Due to its role in lipid metabolism, it is known to inhibit sebum secretion and thus reduce skin oiliness. Carnitine can also improve skin appearance in other ways. It is involved in skin cell proliferation, as it was shown to increase epidermal thickness both in healthy skin and during regeneration after wounds.

Technical specification:

ITEM	SPECIFICATION
Appearance	White crystalline powder
Identification	IR/Specific rotation
Appearance of Solution	Clear and Colourless
Specific rotation	-29°~-32°
PH	5.5~9.5
Water content	≤4.0%
Residue on Ignition	≤0.5%
Heavy Metals	≤10ppm
Arsenic	≤1ppm
Chloride	≤0.4%
Assay	97.0%~103.0%
Microbiological Analysis	
Total Plate Count	≤1000cfu/g
Yeast & Mold	≤100cfu/g



Golden Horizon
Biologics

Golden Horizon (Chengdu) Technology Co.,Ltd.

E.Coli	Negative
Salmonella	Negative

Packaging Details:

Package: 25kgs/fiber drum, inner with double-layer plastic bags.

Shelf life: 2 years when properly stored.

Storage: Store in cool & dry place, do not freeze, and keep away from direct strong light.

Creation Date: Nov. 01, 2017

Version #: V. 01.

END OF DOCUMENT