

L-Carnosine



Hamari Chemicals, Ltd.

Features

- ✓ bioactive food component that keeps the body healthy
- ✓ antioxidant
- ✓ anti-wrinkle applications
- ✓ promotes wound healing
- ✓ science-based nutrition

- ✓ GMP management, ISO 14001
- ✓ Kosher Certified

- ✓ Hamari has produced L-Carnosine since 1970



Method of Action

L-Carnosine is a naturally occurring dipeptide found in muscle and brain of human tissues and other innervated animal. L-Carnosine is believed to be a bioactive food component that is taken up body, modify processes in the body and keeps the body healthy.

L-Carnosine has attracted much attention as a naturally occurring antioxidant and transition-metal ion-sequestering agent. Although the exact biological role of L-Carnosine is not totally understood, several human and animal studies have demonstrated that it possesses strong and specific properties, inhibits the formation of advanced glycation end products (AGEs), protects against radiation damages and promotes wound healing.

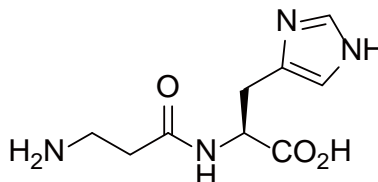
L-Carnosine Specification Sheet

I. Substance

(1) Name: L-Carnosine (CAS 305-84-0)

N^{α} -(3-aminopropionyl)-(S)-histidine

(2) Structural formula, molecular formula and molecular weight



C₉H₁₄N₄O₃: 226.24

II. Specifications

No.	Test Name	Specification
1	Appearance	Fine powder, white or light yellow color
2	Identification	Conforms
3	Solubility	Practically insoluble in organic solvents Soluble in water
4	Melting point	250°C to 265°C
5	Heavy metals	Less than 10 ppm
6	pH (2% in water)	7.9 to 8.5
7	Arsenic	Less than 2 ppm
8	Assay (calc. as dry)	Not less than 99%
9	Specific optical rotation $[\alpha]_D^{20}$	Between +18° and +25°
10	Water content	Not more than 1%
11	Sulphuric ashes	Not more than 0.1%
12	TLC	
	L-Histidine, free	Not more than 2%
	β-Alanine, free	Not more than 0.1%

III. Quality Standards

Japanese Pharmacopoeia and Yonezawa Hamari Chemicals, Ltd.

IV. Packaging:

Keep in a well-closed container at controlled room temperature

Standard package size: 30 kg



Hamari Chemicals, Ltd.

e-mail: ask@hamari.co.jp

tel: +81-6-6205-7755

fax: +81-6-6205-7222