

PepZinGI (ZINC L-CARNOSINE)



Hamari Chemicals, Ltd.

▶ FEATURES

- ✓ promotes a healthy stomach lining and environment
- ✓ helps relieve occasional gastric discomfort
- ✓ maintains a healthy gastrointestinal environment
- ✓ supports the health of gastric cells
- ✓ science-based nutrition
- ✓ cGMP management, ISO 14001
- ✓ Kosher Certified
- ✓ registered as an Active Pharmaceutical Ingredient in Japan
- ✓ registered as a New Dietary Ingredient in the US
- ✓ registered as a Complementary Medicine in Australia

**HAMARI IS REGISTERING PepZinGI AS
NOVEL FOOD FOR EUROPE**

▶ METHOD OF ACTION

HAMARI's PepZinGI™ (zinc L-carnosine) enhances stomach lining integrity, owing to its free-radical quenching capability as well as its effects on growth factors and immunomodulating activities. When zinc is complexed to L-carnosine, the complex dissociates in the stomach at a slower rate. This prolonged existence allows it to maintain its gastric healing effect over a longer period of time. Because of their fast diffusion rates, non-molecular combinations (admixtures) of L-carnosine and zinc are less effective. The proprietary chelation process along with excellent scientific research make HAMARI's PepZinGI™ the best choice for supporting gastric health.

PepZinGI is a trademark of Hamari Chemicals, Ltd.

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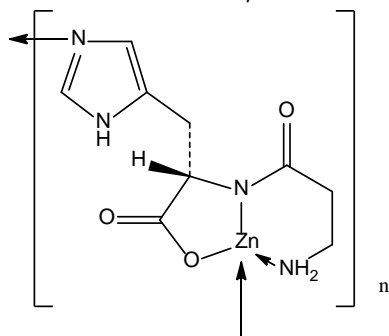
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I. SUBSTANCE

(1) Name: Zinc L-Carnosine Complex; Polaprezinc; CAS 107667-60-7

(2) Inventor: Hamari Chemicals, Ltd.

(3) Structural formula, molecular formula and molecular weight



$(C_9H_{12}N_4O_3Zn)_n : 289.60 \times n$ (1 to 2)



II. SPECIFICATION

Test Name		Specification Limit
Appearance		White to pale yellowish white crystalline powder
Identification	Nitrate	Positive
	Zinc	Positive
	Infrared	Positive
Optical rotation, calc. as dried		$[\alpha]_D^{20}$: +8° to +9°
Heavy Metals (Lead, Arsenic, Cadmium, Mercury)		Support EFSA's risk assessment
Related substances	L-Histidine	Not more than 2.0%
	Other impurities	Not more than 0.1%
	TOTAL	Not more than 1%
Water		Not more than 5.0%
Methanol		Not more than 0.3%
Zinc L-Carnosine, calc. as dried		98.0% to 102.0%
Zinc, calc. as dried		21.5% to 23.0%
L-Carnosine, free		Not more than 0.1%
TAMC		Not more than 1000 CFU/g
TYMC		Not more than 100 CFU/g

III. PACKAGING

Store in tightly-closed containers

Standard package size: 10 kg

IV. STABILITY

40±2°C, 75±5% relative humidity, 6 months

25±2°C, 60±5% relative humidity, 36 months