

Product Specification

Product Name: L-Carnosine

<u>Product Characteristics</u>	<u>Specification</u>
Synonym	β-Ala-His
Molecular Formula	C9H14N4O3
Molecular Weight	226.24
CAS NO	305-84-0
Description	White to almost white powder

<u>Product Profile</u>	<u>Specification</u>	<u>Method</u>
Specific Rotation	+20°~+22°	USP<781>
Melting Point	250°C~265°C	USP<741>
Particle size	100% through 100 mesh	USP<786>
Bulk Density(Loose)	≥0.20 g/ml	USP<616>
Solubility	Practically insoluble in organic solvents, soluble in water	Visual Test

<u>Product Profile</u>		
Identification	Complies	IR
Assay	99.0%~101.0% (w/w)	HPLC
Loss on Drying	≤1.0% (w/w)	USP<731>
pH	7.9~8.5	USP<791>
Residue on ignition	≤0.1%	USP<281>
L-histidine	≤1.0%	TLC
β-alanine	≤0.1%	TLC

<u>Microbiological Profile</u>		
Total Plate Count	≤1000 CFU/g	USP<61>
Yeast & Mold	≤100 CFU/g	USP<61>
E.coli	Negative	USP<61>
Salmonella	Negative	USP<61>

<u>Additional Testing</u>		
Heavy Metals	≤ 10 ppm	USP<231>
Arsenic	≤ 2 ppm	USP<211>
Lead	≤0.1 ppm	USP<251>
Hydrazine content	Not detectable	GB6906-1986

Storage & Packaging:

Store in tightly closed containers at room temperature. Protected from moisture and pest infestation.