



Address: East of Tianmu Road, Laiyang Development
Zone, Yantai City, Shandong Province, 265200, China

Specification

Product Name:	Acetyl-L-Carnitine HCL (Slow-Release Granule)	Country of Origin:	China
Specification	85%	Molecular Formula:	C ₉ H ₁₈ CINO ₄
CAS No.	5080-50-2	Formula Weight:	239.7

Items	Specification	Test Method
Appearance	White to off-white free-flowing granule	Visual

Analytical Quality		
Loss on Drying	≤1.0%	USP<731>
Residue on Ignition	≤0.5%	USP<281>
Assay	≥85.0%	Titration
Bulk Density	≥0.40g/mL	USP<616>
Tapped Density	≥0.50g/mL	USP<616>
Particle Size	≥90% through 20 mesh	USP<786>
	≤30% through 80 mesh	USP<786>
Chemical Control		
Heavy Metals	≤10ppm	USP<231>
Lead (Pb)	≤3ppm	GF-AAS
Arsenic (As)	≤1ppm	HG-AAS
Cadmium (Cd)	≤1ppm	GF-AAS
Mercury (Hg)	≤0.1ppm	HG-AAS
Microbiological Control		
Total Aerobic Microbial Count	≤1000cfu/g	USP<61>
Total Moulds and Yeasts Count	≤100cfu/g	USP<61>
*Salmonella	Negative/25g	USP<62>
*E.coli	Negative/10g	USP<62>

Packing and Storage	
Packing	Packed in 20kg carton, packed with double layer polyethylene bag as liner.
Storage	It shall be stored in tightly closed containers at room temperature, and protected from heat, light, moisture, and oxygen.
Shelf Life	The product can be stored for 24 months at room temperature in the unopened original container.

Remark: *Performs the tests two times a year. "Certified" indicates that data are obtained by statistically designed sampling audits.