

Parameter	Specification	Test Result	Method
Product Name	L-Carnitine Base	-	-
Batch No.	PL260318	-	-
Grade	Feed Grade	-	-
Manufacturing Date	2026-MAR-18	-	-
Expiry Date	2028-MAR-17	-	-
Identification	IR absorption spectrum	Conform	IR
Appearance	White Crystals/Powder	Conform	Visual
Assay	98.0%-102.0%	99.1%	Titration
Bulk Density	0.4-0.7 g/ml	Conform	Physical
Tapped Density	0.5-0.8 g/ml	Conform	Physical

Specific Rotation	-29.0°~-32.0°	-31.2°	USP
pH	5.5-9.5	7.0	USP
Water Content	≤4.0%	0.07%	USP
Residue on Ignition	≤0.5%	0.06%	USP

RESIDUAL SOLVENTS & IMPURITIES

Parameter	Specification	Test Result	Method
Residual Solvents	≤0.5%	Conform	USP
Sodium (Na)	≤0.1%	<0.1%	USP
Potassium (K)	≤0.2%	<0.2%	USP
Chloride (Cl)	≤0.4%	<0.4%	USP
Cyanide	Non-detectable	Non-detectable	Ch.P.

HEAVY METALS

Parameter	Specification	Test Result	Method
Heavy Metals	≤10 ppm	<10 ppm	USP
Arsenic (As)	≤1 ppm	<1 ppm	USP
Lead (Pb)	≤3 ppm	<3 ppm	USP
Cadmium (Cd)	≤1 ppm	<1 ppm	USP
Mercury (Hg)	≤0.1 ppm	<0.1 ppm	USP

MICROBIOLOGICAL TESTING

Parameter	Specification	Test Result	Method
Total Plate Count	<1000 CFU/g	Complies	USP
Yeast & Mold	<100 CFU/g	Complies	USP
E. coli	Negative	Negative	USP
Salmonella	Negative	Negative	USP

■ CONCLUSION: COMPLIES

Batch No.: PL260318 | Manufacturing: 2026-MAR-18 | Expiry: 2028-MAR-17 | Quantity: 500 KGS | Grade: Feed Grade | Origin: China

PRODUCT FORMS AVAILABLE

Form	Description	Applications
L-Carnitine Base	Free form, 99%+ purity	Capsules, tablets, powders
L-Carnitine L-Tartrate	Salt form, enhanced stability	Sports nutrition
Acetyl-L-Carnitine	Acetylated form, brain health	Nootropic formulas
L-Carnitine HCl	Hydrochloride salt	Liquid formulations

APPLICATIONS

- Dietary Supplements: Energy support, weight management
- Sports Nutrition: Pre-workout, recovery drinks
- Food & Nutrition: Fortified foods, functional beverages
- Animal Nutrition: Pet food, livestock feed, aquaculture

- **Pharmaceutical:** Prescription medications, clinical nutrition
- **Nootropics:** Cognitive support (as Acetyl-L-Carnitine)

PACKAGING & STORAGE

Packaging: 25kg/drum with double plastic bags | Sealed, moisture-proof
Storage: Sealed, dry, light-proof | Cool, dry place | Shelf life: 24 months

QUALITY ASSURANCE

Every batch undergoes rigorous testing: Titration assay, IR identification, heavy metal screening, microbiological testing, residual solvent analysis, and comprehensive physical property testing.

Standards: USP | Ch.P. | Enterprise Standards | Feed Grade | GMP | ISO 22000 | HACCP | Kosher | Halal

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