

## **Certificate of Analysis**

Product Name: Acetyl L-Carnitine

Starting Material(s): Synthetic: L-Carnitine & Acetyl Chloride

Residual Solvents: None or Ethanol ≤0.5%

Country of Origin:

Batch Number:

Manufacture Date:

Retest Date:

China
Varies
Varies
Varies
Varies

## Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
Acetyl L-Carnitine (HPLC)	98-101%	98.27%
Identification (FT/IR)	Positive	Confirmed
Aerobic Plate Count	≤1000 cfu/g	Not Detected
Yeast & Mold	≤100 cfu/g	Not Detected
Coliforms	≤100 cfu/g	Not Detected
E. Coli	Negative	Absent
Salmonella	Negative	Absent
Staph aureus	Negative	Absent
Pseudo. aeruginosa	Negative	Absent
Conclusion (PureBulk):	This product conforms to standards	

The following information is an indirect translation of information provided from the Manufacturer's Certificate of Analysis, and should not be used solely as an instrument for strict quality control.

ITEMS	SPECIFICATIONS	RESULTS	
Appearance	White crystalline powder	Conforms	
Particle Size (mesh)	Through 20 mesh	100% passed	
Specific Rotation	-27.0~-29.0°	-28.1°	
рН	2.3~2.6	2.4	
Loss on Drying	≤0.50%	0.09%	
Residue on Ignition	≤0.50%	0.07%	
Heavy Metals	≤10 ppm	<10 ppm	
Lead (Pb)	≤3 ppm	<3 ppm	
Cadmium (Cd)	≤1 ppm	<1 ppm	
Mercury (Hg)	≤0.1 ppm	<0.1 ppm	
Arsenic (As)	≤1 ppm	<1 ppm	
Bulk Density	0.3-0.7 g/ml	Conforms	
Tapped Density	0.5-0.9 g/ml	Conforms	
Conclusion (Manufacturer):	This product conforms to enterpris	This product conforms to enterprise standards	
Additional Information:	GRAS   Non-Allergen   BSF/TSF	Free Gluten-Free Vegetarian/Vegan	

Additional Information: GRAS || Non-Allergen || BSE/TSE Free || Gluten-Free || Vegetar<mark>ian/Veg</mark>an

GMO Statement: Non-GMO

**Composition:** Acetyl L-Carnitine HCl ≥98%

Water: ≤0.5%

Other Impurities: ≤1.5%

Storage Conditions: Keep in sealed container under 25°C.

Keep away from strong light, heat and moisture.

Purebulk.Inc verifies that the information contained herein is true and correct to the best of our knowledge.

Verified By: Candace Gibson

( This document was produced electronically and is valid without signature. )

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