

## Certificate of Analysis

---

**Ingredient Name:** Acetyl-L-Carnitine HCl  
**Batch Number:** D050-2010165  
**Quantity:** 750KGS  
**Country of Origin:** China  
**Date of Manufacture:** Oct.31, 2020  
**Date of Re-Test :** Oct.30, 2023  
**Report Date:** Nov.04, 2020  
**Standard:** Q/CDJ3.09 (06)

Item	Standard	Results	Method
Appearance	White crystalline powder	White crystalline powder	Visual
Identification	In accordance with the IR absorption spectrum of the standard	Conforms	IR
Specific Rotation	-27.0° ~ -29.0°	-27.7°	Ch.P.
pH	2.3 ~ 2.6	2.40	Ch.P.
Loss on Drying	≤0.5%	0.19%	Ch.P.
Assay	98.0% ~ 101.0%	98.6%	Titration
Residue on Ignition	≤0.5%	0.04%	Ch.P.
Heavy Metals	≤0.001%	<0.001%	Ch.P.
Arsenic	≤0.0002%	<0.0001%	Ch.P.

---

We certify that this batch of **Acetyl-L-Carnitine HCL** conforms to Inhouse Standards.

---