

CERTIFICATE OF ANALYSIS

ACETYL L-CARNITINE HCL

Batch No.: ALC150601

Quantity: 5000KG

Manufacture date: 2019-05-26

Test date: 2019-06-02 Retest Date: 2019-06-25

Specifications	Standards	Wealth percentage
Appearance	White crystalline powder	White crystalline powder
PH	2.3-2.6	2.48
Specific rotation (°)	-27.0~-28.5	-27.96
Loss on drying (%)	≤0.5	0.32
Residue on ignition (%)	≤0.5	0.08
Water (%)	≤1.0	0.28
Heavy metals (ppm)	≤10	<10
Cd (ppm)	≤1	<1
Pb (ppm)	≤3	<3
Hg (ppm)	≤0.1	<0.1
Arsenic (ppm)	≤1	<1
Total plate count	<1,000cfu/g	<10cfu/g
Yeast and moulds	<100cfu/g	<10cfu/g
Salmonella	Negative	Non detectable
E.Coli	Negative	Non detectable
Croton Betaine HCl (%)	≤0.2	0.02
L-Carnitine Hydrochloride (%)	≤1	0.12
Assay (%)	98.0-102.0	99.13

We certify that this batch of Acetyl L-Carnitine Hcl conforms to in house standards.

Chemwill Asia co.,Ltd is one of the leading **manufacturer in CHINA.**

Our main production base is located in **Xuzhou industry park**. We produce a wide range of organics including Basic chemicals , Fine chemicals, Active pharmaceutical ingredients(APIs), Veterinary, Indole derivatives, Aromatics, Fluorine, Boronic acids, organocatalysts, chiral building blocks, **heterocyclic** compounds. We are certified both to the **ISO 9001** and **ISO 14001** Standards, have a safety management system in place.

Our R&D team masters **core technology** for **process-design** of target building block as well as **Tailor-made fine chemicals**. Our manufactory specialised in extreme temperature conditions (-100°C to +300°C), hydrogenations reaction under high pressure, **suzuki coupling reaction**, photochemical reaction, Mitsunobu reactions, enantioselective reactions and asymmetric synthesis.

Think Chemistry, Think ChemWill



Factory Plant Address:

High-Tech Industrial park, Chemical Economical Development Zone, Xuzhou, Jiangsu-Province, P.R.China

Shanghai office: (Export Department)

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Ms Mary Chi - Sales manager

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