



DNP International
The Ingredients For Your Success

CERTIFICATE OF ANALYSIS

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PRODUCT NAME: Acetyl L-Carnitine HCl

CAS#: 5080-50-2

Batch No:	4-2008-045	Production Date	Nov.26,2008
Analysis Date:	Nov.26,2008	Origin:	China
Batch Size:	1000kg	Shelf Life:	2 years
		Package:	25kg drum

Item	Specification	Result	Test Method
Appearance	White crystalline powder	White crystalline powder	Visual
Assay	98.0~102.0%	99.40%	Titration
Melamine	Negative	Negative	HPLC
Loss on Drying	0.50% max.	0.35%	CP2000
Residue on Ignition	0.50% max.	0.25%	CP2000
Specific Rotation	-27.0°~-29.0°	-27.80°	CP2000
Arsenic	1 ppm max.	<1 ppm	CP2000
Heavy Metals	10 ppm max.	<10 ppm	CP2000
Mesh Size	40 mesh	40 mesh	40 mesh screen
pH Value	2.3~2.6	2.5	2% Solution

Product Description: Microorganism Limit Inspection: Meet the requirements; Conforms
Starting Material(s): L-Carnitine(Epichlorhydrin), Acetyl chloride
Storage: Store in cool and dry place. Keep away from strong light and heat.
Conclusion: Conforms to enterprise standard.

*The above information is a direct translation of the information provided to DNP from the manufacturer of this product. This Certificate of Analysis should be used for informational purposes and is not intended as a substitute for strict quality control analysis by the purchaser of this product.

David Ji
President