

## CERTIFICATE OF ANALYSIS

Product Name	Propionyl L-Carnitine HCl	Batch No	PY-PR20190423
Quantity	300KG	Analysis Date	Apr.26,2019
Mfg. Date	Apr.23,2019	Exp. Date	Apr.22,2021
Package	25KG/Drum	Standard	Enterprise Standard

No.	Item	Specification	Result
1.	Appearance	White crystalline powder	White crystalline power
2.	Specific Rotation	-25.0° ~ -28.0°	-26.34°
3.	pH	2.0-3.0	2.38
4.	Loss on Drying	≤0.5%	0.27%
5.	Residue on Ignition	≤0.5%	0.06%
6.	Heavy Metals	≤10ppm	<10ppm
7.	As	≤1ppm	<1ppm
8.	Croton Betaine Hcl	≤0.5%	0.19%
9.	L-Carnitine Hcl	≤0.5%	0.11%
10.	Assay	98.0-102.0%	99.39%

Conclusion: Conform to the Enterprise Standard .

Storage: Keep container tightly closed, dry and in a cool well- ventilated place. Keep away from heat and sources of ignition. Temperature not exceeding 25 (°C).

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