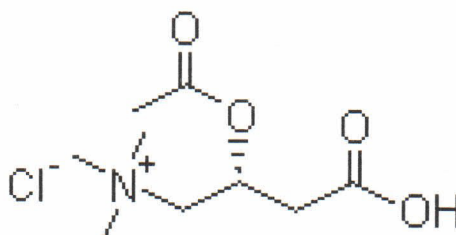


Batch no	ALC250310
Mf date	Mar 09 2025
Retest	Mar 08 2027

Molecular Structure



Molecular Formula $C_9H_{17}NO_4 \cdot HCl$
Molecular Weight 239.70
CAS Registry Number 5080-50-2

May 07 2025

Tests	Specifications	Results
Appearance	White crystalline powder	Conforms
Identification	IR	Positive
Specific rotation	$-27.0 \sim -28.5^\circ$	-28.1°
pH	$2.3 \sim 2.6$	2.5
Loss on drying	$\leq 0.5\%$	0.2%
Residue on ignition	$\leq 0.5\%$	0.05%
Water content	$\leq 1.0\%$	0.092%
Heavy metals	$\leq 10 \text{ ppm}$	$< 10 \text{ ppm}$
As	$\leq 1 \text{ ppm}$	$< 1 \text{ ppm}$
Crotonobataine HCl	$\leq 0.2\%$	0.017%
L-Carnitine HCl	$\leq 1.0\%$	0.085%
Assay	$98.0 \sim 102.0\%$	99.0%

Packaging & storage	Preserve in tight and light-resistant containers. Store at room temperature.
Conclusion	Material complies with in house standard