



CERTIFICATE OF ANALYSIS

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1. Identification

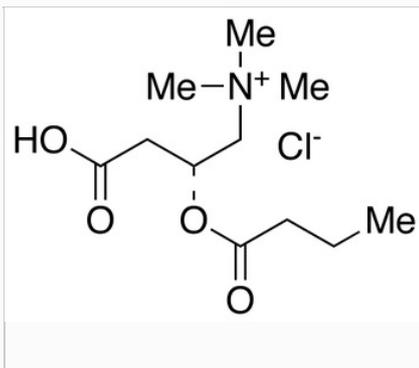
Catalogue Number: B802700

CAS Number: 162067-50-7

Product: (R)-Butyryl Carnitine Chloride

Synonym: (2R)-3-Carboxy-N,N,N-trimethyl-2-(1-oxobutoxy)-1-propanaminium Chloride;

Structure:



Molecular Formula:

C₁₁H₂₂ClNO₄

Molecular weight:

267.75

Source of Product:

Synthetic

Solubility:

Methanol (Slightly), Water (Slightly)

Lot Number: 1-JNZ-147-4

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Waxy Solid to Solid	Off-White Waxy Solid to Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 48.11, %H: 8.05, %N: 4.89
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	-21.5° (c = 1.0, Water)
Chloride Content	Report Result	12.3%
HPLC Purity	Report Result	98.07% (ELSD)

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Henry Tieu	Toni Rantanen	Chanell Chu	4/18/2023	4/16/2027