



CERTIFICATE OF ANALYSIS

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1. Identification

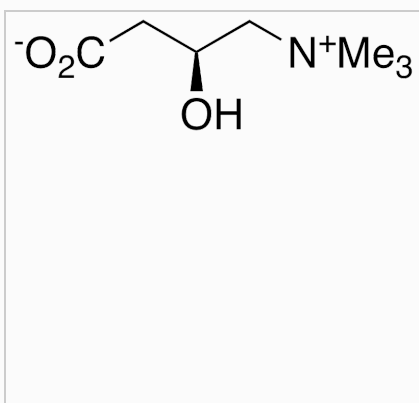
Catalogue Number: C184105

CAS Number: 541-14-0

Product: D-Carnitine

Synonym: (2S)-3-Carboxy-2-hydroxy-N,N,N-trimethyl-1-propanaminium Inner Salt; D-(3-Carboxy-2-hydroxypropyl)trimethyl Ammonium Hydroxide Inner Salt; (+)-Carnitine; (+)-D-Carnitine; D-(+)-Carnitine; d-Carnitine;

Structure:



Molecular Formula:

C₇H₁₅NO₃

Molecular weight:

161.2

Source of Product:

N/A

Solubility:

DMSO (Slightly, Sonicated),
Methanol (Slightly, Sonicated),
Water (Slightly)

Lot Number: 2023-ZEA-125

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 Beige Solid	Off-White to Pale Yellow Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 51.36, %H: 9.31, %N: 8.37
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	99.99% (ELSD)
Specific Rotation	Report Result	+20.4° (c = 0.2, Methanol)

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
Nicole Yip	Toni Rantanen	Chanell Chu	5/9/2023	5/7/2027