



Certificate of Analysis

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Product Name: (±)-Decanoylcarnitine chloride Catalog No.: 0477 Batch No.: 1

CAS Number: 14919-36-9

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₃₄CINO₄

Batch Molecular Weight: 351.91 **Physical Appearance:** White solid

Solubility: water to 100 mM Storage: Desiccate at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.52$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Chiral HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 58.02 9.74 3.98 Found 58.11 9.94 3.98



Product Information

Print Date: Jan 15th 2016

Batch No.: 1

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Product Name: (±)-Decanoylcarnitine chloride

CAS Number: 14919-36-9

Description:

Homolog of acetylcarnitine chloride (Cat. No. 0355).

Physical and Chemical Properties:

Batch Molecular Formula: $C_{17}H_{34}CINO_4$

Batch Molecular Weight: 351.91 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C

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water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Chalmers et al (1984) Urinary excretion of *I*-carnitine and acylcarnitines by patients with disorders of organic acid metabolism: evidence for secondary insufficiency of *I*-carnitine. Pediatr.Res. **18** 1325. PMID: 6441143.

Coates and Tanaka (1992) Molecular basis of mitochondrial fatty acid oxidation defects. J.Lipid.Res. 33 1099. PMID: 1431593.

Poorthuis et al (1993) Determination of acylcarnitines in urine of patients with inborn errors of metabolism using HPLC after derivatization with 4'-bromophenacyl bromide. Clin.Chim.Acta **216** 53. PMID: 8222273.

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