

Analytical Data Sheet

Lot number **1075283**
not for drug use

Catalog number **F-2700.0025**
Product number **4030429.0025**
Product **L- Carnitine**
(R) - β - Hydroxy- γ - (trimethylammonio) butyrate
Molecular formula **C₇H₁₅NO₃**
Relative molecular mass **161.20**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in water)
Identification (IR)	conforms to reference spectrum 9001551
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -31.0^\circ$ (1% in water)
Purity (TLC)	> 99%
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	0.2% D-enantiomer
Assay (titration)	96.6%

Latest update: January 23, 2018

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