

Analytical Data Sheet

Lot number

1037646

not for drug use

Catalog Number	F-2700.0250
Product number	4030429.0250
Product	L- Carnitine (R) - β- Hydroxy- γ- (trimethylammonio) butyrate
Molecular formula	C ₇ H ₁₅ NO ₃
Relative molecular mass	161.20

Tests	Results
Appearance	white crystalline 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, Amm., TMB
Enantiomer content (GC)	0.2% D-enantiomer
Assay (titration)	99.2% (HClO ₄)
Latest update: July 08, 2011	