

Analytical Data Sheet

Lot number

1040845

not for drug use

Catalog Number	F-1485.1000
Product number	4005653.1000
Product	DL- Cycloserine
Molecular formula	C ₃ H ₆ N ₂ O ₂
Relative molecular mass	102.09

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (25 mg/mL in water)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -0.0^\circ$ (1% in water)
Purity (TLC)	> 95%
TLC conditions	isopropanol/ammonia conc. 1/1 2-butanol/pyridine/H ₂ O 7/7/6 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	98.5% (Nth 27.44%, Nfd 27.03%)
Water content (KF coulometric)	0.3%
Latest update: February 03, 2012	
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