

Analytical Data Sheet

Lot number **1055511**
not for drug use

Catalog number **F-1475.1000**
Product number **4006516.1000**
Product **L- Cycloserine**
Molecular formula $C_3H_6N_2O_2$
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	$[\alpha]_D^{24} = -107.8^\circ$ (1% in water)
Purity (HPLC)	99.5% (NaClO ₄)
Purity (TLC)	> 98%
TLC conditions	isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	97.0% (Nth 27.44%, Nfd 26.62%)
Water content (KF coulometric)	0.6%