

## Analytical Data Sheet

Lot number **1071491**  
not for drug use

Catalog number **F-1480.0025**  
Product number **4030155.0025**  
Product **D- 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	$[\alpha]_D^{24} = +113.8^\circ$ (1 % in H <sub>2</sub> O)
Purity (TLC)	> 99%
TLC conditions	isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	3.68% L-Enantiomer
Other amino acids (GC)	< 0.1% each
Assay (elemental analysis)	99.9% (Nth 27.44%, Nfd 27.40%)
Water content (KF volumetric)	0.9%

Latest update: May 02, 2017

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