

# Analytical Data Sheet

Lot number

**1036791**

not for drug use

<b>Catalog Number</b>	F-1475.0250
<b>Product number</b>	4006516.0250
<b>Product</b>	L- Cycloserine
<b>Molecular formula</b>	C <sub>3</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub>
<b>Relative molecular mass</b>	102.09

Tests	Results
<b>Appearance</b>	white powder
<b>Appearance of solution</b>	clear, colorless solution (25 mg/mL in water)
<b>Identification (TLC)</b>	complies with authentic material
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = -108.1^\circ$ (1% in water)
<b>Purity (HPLC)</b>	98.9% (NaClO <sub>4</sub> )
<b>Purity (TLC)</b>	≥ 95%
<b>TLC conditions</b>	2-butanol/pyridine/H <sub>2</sub> O 7/7/6 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine
<b>Assay (elemental analysis)</b>	98.0% (Nth 27.44%, Nfd 26.89%)
<b>Water content (KF coulometric)</b>	0.3%
Latest update: May 13, 2011	

**Analytical Data Sheet**  
Lot number **1036791**