

# Analytical Data Sheet

Lot number

**1033400**

not for drug use

Catalog Number	F-3680.0001
Product number	4027488.0001
Product	D- Thiazolidine- 4- carboxylic acid
Molecular formula	C <sub>4</sub> H <sub>7</sub> NO <sub>2</sub> S
Relative molecular mass	133.17

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (25 mg/mL in water)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 36.1%</td> <td>C = 36.1%</td> </tr> <tr> <td>H = 5.3%</td> <td>H = 5.3%</td> </tr> <tr> <td>N = 10.5%</td> <td>N = 10.5%</td> </tr> </table>	Theory	Found	C = 36.1%	C = 36.1%	H = 5.3%	H = 5.3%	N = 10.5%	N = 10.5%
Theory	Found								
C = 36.1%	C = 36.1%								
H = 5.3%	H = 5.3%								
N = 10.5%	N = 10.5%								
Identification (TLC)	complies with authentic material								
Melting point	207 °C								
Specific optical rotation	$[\alpha]_D^{24} = +141.4^\circ$ (1% in water)								
Purity (TLC)	≥ 98%								
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	99.5% (Nth 10.52%, Nfd 10.47%)								
Latest update: October 28, 2010									