

## Analytical Data Sheet

Lot number **1000027563**  
not for drug use

Catalog number **G-1380.0001**  
Product number **4011129.0001**  
Product **H- Ala- Ser- OH**  
Molecular formula  $C_6H_{12}N_2O_4$   
Relative molecular mass 176.17

Tests	Results								
Appearance	off-white to light redish powder								
Appearance of solution	clear, colorless solution (50 mg/ml in AcOH 80 %)								
Identification (elemental analysis)	<table><thead><tr><th>Theory</th><th>Found</th></tr></thead><tbody><tr><td>C = 40.78 %</td><td>C = 40.35 %</td></tr><tr><td>H = 6.88 %</td><td>H = 6.97 %</td></tr><tr><td>N = 15.85 %</td><td>N = 15.88 %</td></tr></tbody></table> <p>calc. as 0.03 H<sub>2</sub>O (0.31 %)</p>	Theory	Found	C = 40.78 %	C = 40.35 %	H = 6.88 %	H = 6.97 %	N = 15.85 %	N = 15.88 %
Theory	Found								
C = 40.78 %	C = 40.35 %								
H = 6.88 %	H = 6.97 %								
N = 15.85 %	N = 15.88 %								
Identification (TLC)	conforms with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +10.9^\circ$ (2 % in water)								
Purity (TLC)	> 99%								
TLC conditions	chloroform/methanol/acetic acid/H <sub>2</sub> O 60/45/14/6 n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 n-butanol/acetic acid/H <sub>2</sub> O/pyridine 30/6/24/20 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB								
Water content (KF coulometric)	0.3%								

Latest update: January 22, 2020

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