

Analytical Data Sheet

Lot number **1071383**
not for drug use

Catalog number **G-1210.0001**
Product number **4003766.0001**
Product **H- Ala- Gln- OH**
Molecular formula $C_8H_{15}N_3O_4$
Relative molecular mass 217.23

Tests	Results								
Appearance	white 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 = 43.87 %</td> <td>C = 43.75 %</td> </tr> <tr> <td>H = 7.00 %</td> <td>H = 6.93 %</td> </tr> <tr> <td>N = 19.18 %</td> <td>N = 19.16 %</td> </tr> </tbody> </table> <p>calc. as 0.1 H₂O (0.8 %)</p>	Theory	Found	C = 43.87 %	C = 43.75 %	H = 7.00 %	H = 6.93 %	N = 19.18 %	N = 19.16 %
Theory	Found								
C = 43.87 %	C = 43.75 %								
H = 7.00 %	H = 6.93 %								
N = 19.18 %	N = 19.16 %								
Identification (TLC)	conforms with authentic material								
Melting point	222 °C								
Specific optical rotation	$[\alpha]_D^{24} = + 10.8^\circ$ (1 % in H ₂ O) $[\alpha]_{365}^{24} = + 38.8^\circ$ (1 % in H ₂ O)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	99.1% (Nth 19.34 %, Nfd 19.16 %)								
Water content (KF coulometric)	0.5%								

Latest update: April 24, 2017

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