

Analytical Data Sheet

Lot number **1068908**
not for drug use

Catalog number **G-2990.1000**
Product number **4006116.1000**
Product **H- Pro- Arg- OH acetate salt**
Molecular formula $C_{11}H_{21}N_5O_3$
Relative molecular mass 271.32

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 = 44.46 %</td> <td>C = 44.21 %</td> </tr> <tr> <td>H = 7.81 %</td> <td>H = 7.58 %</td> </tr> <tr> <td>N = 19.94 %</td> <td>N = 20.07 %</td> </tr> </tbody> </table> <p>calc. as 1 acetic acid x 1.1 H₂O (5.6 %)</p>	Theory	Found	C = 44.46 %	C = 44.21 %	H = 7.81 %	H = 7.58 %	N = 19.94 %	N = 20.07 %
Theory	Found								
C = 44.46 %	C = 44.21 %								
H = 7.81 %	H = 7.58 %								
N = 19.94 %	N = 20.07 %								
Melting point	196 °C								
Specific optical rotation	$[\alpha]_D^{24} = -27.8^\circ$ (1 % in H ₂ O) $[\alpha]_{365}^{24} = -90.7^\circ$ (1 % in H ₂ O)								
Purity (TLC)	> 99%								
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 isopropanol/ammonia conc. 1/1 n-butanol/acetic acid/H ₂ O 4/2/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	95.0% (Nth 21.13 %, Nfd 20.07 %)								
Water content (KF coulometric)	5.6%								

Latest update: December 09, 2016

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