

Analytical Data Sheet

Lot number **1068881**
not for drug use

Catalog number **M-1130.0025**
Product number **4002371.0025**
Product **Bz- Arg- OEt · HCl**
Molecular formula $C_{15}H_{22}N_4O_3 \cdot HCl$
Relative molecular mass 342.83

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in water)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 52.6%</td> <td>C = 52.6%</td> </tr> <tr> <td>H = 6.8%</td> <td>H = 6.8%</td> </tr> <tr> <td>N = 16.3%</td> <td>N = 16.3%</td> </tr> </tbody> </table>	Theory	Found	C = 52.6%	C = 52.6%	H = 6.8%	H = 6.8%	N = 16.3%	N = 16.3%
Theory	Found								
C = 52.6%	C = 52.6%								
H = 6.8%	H = 6.8%								
N = 16.3%	N = 16.3%								
Identification (TLC)	complies with authentic material								
Melting point	132 °C								
Specific optical rotation	$[\alpha]_D^{24} = -17.3^\circ$ (2% in water)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% H-Arg-OEt · 2 HCl < 0.1% Bz-Arg-OH · HCl								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H ₂ O 60/30/9/16.5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	0.13% D-enantiomer								
Water content (KF volumetric)	0.1%								
Chloride content (titration)	10.4%								

Latest update: November 29, 2016

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