

Analytical Data Sheet

Lot number **1066395**
not for drug use

Catalog number **M-1745.0025**
Product number **4002251.0025**
Product **Tos- Arg- OMe · HCl**
Molecular formula **C₁₄H₂₂N₄O₄S · HCl**
Relative molecular mass **378.88**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 44.4 %</td> <td>C = 44.0 %</td> </tr> <tr> <td>H = 6.1 %</td> <td>H = 6.1 %</td> </tr> <tr> <td>N = 14.8 %</td> <td>N = 14.8 %</td> </tr> </tbody> </table> <p>calc. x 1 HCl (9.62 %, Cl⁻ 9.36 %)</p>	Theory	Found	C = 44.4 %	C = 44.0 %	H = 6.1 %	H = 6.1 %	N = 14.8 %	N = 14.8 %
Theory	Found								
C = 44.4 %	C = 44.0 %								
H = 6.1 %	H = 6.1 %								
N = 14.8 %	N = 14.8 %								
Identification (TLC)	complies with authentic material								
Melting point	149 °C								
Specific optical rotation	$[\alpha]_D^{24} = -14.4^\circ$ (1 % in water)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	90.3% (Nth 16.36 %, Nfd 14.78 %)								
Chloride content (titration)	9.3% (AgNO ₃)								

Latest update: June 24, 2016

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