

Analytical Data Sheet

Lot number **1073171**
not for drug use

Catalog number **E-3115.0005**
Product number **4019074.0005**
Product **H- Asp(OMe) - OH · HCl**
Molecular formula **C₅H₉NO₄ · HCl**
Relative molecular mass **183.59**

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 = 32.7%</td> <td>C = 32.7%</td> </tr> <tr> <td>H = 5.5%</td> <td>H = 5.3%</td> </tr> <tr> <td>N = 7.6%</td> <td>N = 7.6%</td> </tr> </tbody> </table> <p>calc. x 1.0 HCl (19.8%)</p>	Theory	Found	C = 32.7%	C = 32.7%	H = 5.5%	H = 5.3%	N = 7.6%	N = 7.6%
Theory	Found								
C = 32.7%	C = 32.7%								
H = 5.5%	H = 5.3%								
N = 7.6%	N = 7.6%								
Identification (TLC)	complies with authentic material								
Melting point	198 °C								
Specific optical rotation	$[\alpha]_D^{24} = +13.5^\circ$ (1% in ethanol/water 1/3)								
Purity (TLC)	≥ 99%								
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 n-butanol/acetic acid/H ₂ O 4/2/2 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	98.4% (Nth 7.63%, Nfd 7.51%)								
Water content (KF volumetric)	0.1%								
Chloride content (titration)	19.2%								

Latest update: August 31, 2017

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