

## Analytical Data Sheet

Lot number **1000014517**  
not for drug use

Retest date October 2022  
 Catalog number **I-1305.1000**  
 Product number **4002585.1000**  
 Product **H- Ser- AMC hydrochloride salt**  
 Molecular formula  $C_{13}H_{14}N_2O_4$   
 Relative molecular mass 262.27

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (25 mg/mL in 40% AcOH)
Identification (elemental analysis)	Theory Found C = 52.0% C = 51.9% H = 5.1% H = 5.0% N = 9.3% N = 9.3%  calc. x 1.0 HCl (12.1%, 11.8% Cl) x 0.1 H <sub>2</sub> O (0.6%)
Identification (TLC)	complies with authentic material
Purity (TLC)	≥ 99%
Related impurities (TLC)	< 0.05% 7-amino-4-methylcoumarin (AMC)
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/30/9/16.5 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Assay (elemental analysis)	87.2%(Nth 10.68%, Nfd 9.31%)
Water content (KF volumetric)	0.5%
Chloride content (titration)	11.8%

Latest update: April 10, 2019

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