

## Analytical Data Sheet

Lot number **1000024326**  
not for drug use

Catalog number **I-1305.0250**  
Product number **4002585.0250**  
Product **H- Ser- AMC hydrochloride salt**  
Molecular formula **C<sub>13</sub>H<sub>14</sub>N<sub>2</sub>O<sub>4</sub>**  
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)	<p>Theory Found</p> <p>C = 52.0% C = 51.9%</p> <p>H = 5.1% H = 5.0%</p> <p>N = 9.3% N = 9.3%</p> <p>calc. x 1.0 HCl (12.1%, 11.8% Cl) x 0.1 H<sub>2</sub>O (0.6%)</p>
Identification (TLC)	complies with authentic material
Purity (TLC)	≥ 99%
Related impurities (TLC)	< 0.05% 7-amino-4-methylcoumarin (AMC)
TLC conditions	<p>n-butanol/acetic acid/H<sub>2</sub>O 4/2/2</p> <p>chloroform/methanol/acetic acid 32% 5/3/1</p> <p>ethylacetate/pyridine/acetic acid/H<sub>2</sub>O 60/30/9/16.5</p> <p>plate: silicagel 60 F<sub>254</sub></p> <p>detected by: UV, ninhydrin, TMB</p>
Assay (elemental analysis)	87.2%(Nth 10.68%, Nfd 9.31%)
Water content (KF volumetric)	0.5%
Chloride content (titration)	11.8%

Latest update: November 06, 2019

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