

## Analytical Data Sheet

Lot number **1000023351**  
not for drug use

Retest date N/A  
 Catalog number I-1120.0050  
 Product number 4003460.0050  
 Product **Boc- Val- Pro- Arg- AMC hydrochloride salt**  
 Molecular formula  $C_{31}H_{45}N_7O_7$   
 Relative molecular mass 627.74

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 = 55.9 %</td> <td>C = 56.0 %</td> </tr> <tr> <td>H = 7.0 %</td> <td>H = 7.0 %</td> </tr> <tr> <td>N = 14.7 %</td> <td>N = 14.6 %</td> </tr> </tbody> </table> <p>calculated as 1 HCl (Cl<sup>-</sup> 5.32 %) x 0.1 H<sub>2</sub>O (0.27 %)</p>	Theory	Found	C = 55.9 %	C = 56.0 %	H = 7.0 %	H = 7.0 %	N = 14.7 %	N = 14.6 %
Theory	Found								
C = 55.9 %	C = 56.0 %								
H = 7.0 %	H = 7.0 %								
N = 14.7 %	N = 14.6 %								
Identification (TLC)	complies with authentic material								
Melting point	181 °C (foam)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% AMC (7-amido-4-methylcoumarin) < 0.2% H-Arg-AMC								
TLC conditions	chloroform/methanol/acetic acid/H <sub>2</sub> O 45/13/1/2 chloroform/methanol/acetic acid/H <sub>2</sub> O 60/45/14/6 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/20/6/11 plate: silicagel 60 F <sub>254</sub> detected by: UV (366nm), ninhydrin, TMB								
Assay (elemental analysis)	91.7% (Nth: 15.62%, Nfd: 14.32%)								
Water content (KF volumetric)	0.4%								
Chloride content (titration)	5.3% (AgNO <sub>3</sub> )								

Latest update: October 16, 2019

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