

## Analytical Data Sheet

Lot number **1061646**  
not for drug use

Catalog number **G-4525.0010**  
Product number **4027473.0010**  
Product **H- Glu- Arg- OH acetate salt**  
Molecular formula  $C_{11}H_{21}N_5O_5$   
Relative molecular mass 303.32

Tests	Results								
Appearance	white product (no visible impurities)								
Appearance of solution	clear, colorless solution (50 mg/ml in methanol 50 %)								
Identification (FAB-MS)	$[M + H]^+ : m/z = 304 \text{ u}$								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 40.84 %</td> <td>C = 40.88 %</td> </tr> <tr> <td>H = 7.21 %</td> <td>H = 7.13 %</td> </tr> <tr> <td>N = 20.53 %</td> <td>N = 20.48 %</td> </tr> </tbody> </table> <p>calc. as x 0.3 AcOH (5.3%) x 1.1 H<sub>2</sub>O (5.8%)</p>	Theory	Found	C = 40.84 %	C = 40.88 %	H = 7.21 %	H = 7.13 %	N = 20.53 %	N = 20.48 %
Theory	Found								
C = 40.84 %	C = 40.88 %								
H = 7.21 %	H = 7.13 %								
N = 20.53 %	N = 20.48 %								
Melting point	124 °C								
Purity (TLC)	98%								
Related impurities (TLC)	< 0.5% Boc-Glu(OtBu)Arg-OH								
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/60/12/36 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F <sub>254</sub> detected by: ninhydrin, chlorine-tolidine								
Water content (KF volumetric)	6.0%								
Acetic acid content (HPLC)	5.7%								

Latest update: September 14, 2015

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