

## Analytical Data Sheet

Lot number **1056490**  
not for drug use

Catalog number **L-2140.0250**  
Product number **4037278.0250**  
Product **Boc- Gln- Ala- Arg- pNA hydrochloride salt**  
Molecular formula  $C_{25}H_{39}N_9O_8$   
Relative molecular mass 593.64

Tests	Results
Appearance	off-white powder
Appearance of solution	clear, slightly yellowish solution (50 mg/ml in methanol)
Identification (ESI-MS)	m = 593.5u (average mass)
Purity (TLC)	> 97%
Related impurities (TLC)	< 0.1% pNA
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 chloroform/methanol/acetic acid 80/3/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, TMB
Assay (elemental analysis)	77.3% (Nth 21.23 %, Nfd 16.41 %)
Water content (KF volumetric)	3.3%
Residual organic solvents (GC)	5.6% diisopropylether 3.8% n-Butanol
Chloride content (titration)	8.7% (AgNO <sub>3</sub> )

Latest update: November 27, 2014

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