

## Analytical Data Sheet

Lot number **1072186**  
not for drug use

Catalog number **G-4230.1000**  
Product number **4018235.1000**  
Product **H- Arg- Gln- OH hydrochloride salt**  
Molecular formula  $C_{11}H_{22}N_6O_4$   
Relative molecular mass 302.33

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH 50%)
Identification (TLC)	complies with authentic material
Purity (TLC)	> 98%
TLC conditions	isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	97.0% (Nth 24.81 %, Nfd 24.07%)
Water content (KF volumetric)	2.6%
Chloride content (titration)	10.4% (AgNO <sub>3</sub> )

Latest update: June 19, 2017

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