

## Analytical Data Sheet

Lot number **1074107**  
not for drug use

Catalog number **E-1365.0025**  
Product number **4007034.0025**  
Product **H- Arg- NH<sub>2</sub> · 2 HCl**  
Molecular formula **C<sub>6</sub>H<sub>15</sub>N<sub>5</sub>O · 2HCl**  
Relative molecular mass **246.14**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (25 mg/mL in methanol)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = + 16.0^\circ$ (1% in water) (corrected for assay)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Arg-OMe · HCl
TLC conditions	isopropanol/ammonia conc. 1/1 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/60/12/36 n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.1% D-Enantiomer
Assay (elemental analysis)	93.3% (Nth 28.45%, Nfd 26.55%)
Water content (KF volumetric)	6.9%
Chloride content (titration)	26.9% (AgNO <sub>3</sub> )

Latest update: October 30, 2017

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