

## Analytical Data Sheet

Lot number **1000015458**  
not for drug use

Retest date n/a  
 Catalog number **F-1880.0025**  
 Product number **4007045.0025**  
 Product **H- Arg(NO<sub>2</sub>) - OBzl p- tosylate salt**  
 Molecular formula C<sub>13</sub>H<sub>19</sub>N<sub>5</sub>O<sub>4</sub>  
 Relative molecular mass 309.33

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (TLC)	complies with authentic material
Melting point	127 °C
Specific optical rotation	$[\alpha]_D^{24} = + 16.8^\circ$ (3% in pyridine)
Purity (TLC)	> 98%
Related impurities (TLC)	0.5% H-Arg(NO <sub>2</sub> )-OH
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/20/6/11 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	0.1% D-Enantiomer
Assay (elemental analysis)	64.2% (Nth 22.64%, Nfd 14.54%)
Assay (titration)	36.2% (TBAH)
Water content (KF volumetric)	0.4%
General comment	Assay (100% - 0.4% - 36.4%) = 63.2%

Latest update: April 29, 2019

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