

Analytical Data Sheet

Lot number **1071129**
not for drug use

Catalog number **A-1200.0005**
Product number **4003812.0005**
Product **Boc- Arg- OH**
Molecular formula $C_{11}H_{22}N_4O_4$
Relative molecular mass 274.32

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in water)
Identification (elemental analysis)	<p>Theory Found</p> <p>C = 46.2% C = 45.8%</p> <p>H = 8.2% H = 8.1%</p> <p>N = 19.6% N = 19.3%</p> <p>calc. x 0.65 H₂O (4%)</p>
Identification (TLC)	R _f value in agreement with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -6.9^\circ$ (2% in acetic acid)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.5% H-Arg-OH < 0.2% Boc-Arg-Arg-OH
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/30/9/16.5 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.1% D-enantiomer
Assay (elemental analysis)	94.4% (Nth 20.42%, Nfd 19.27%)
Water content (KF volumetric)	3.8%

Latest update: April 07, 2017

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