

Analytical Data Sheet

Lot number **1000038671**
not for drug use

Product Boc-Arg-OH
Product number **4003812.0025**
Molecular formula C₁₁H₂₂N₄O₄
Relative molecular mass 274.32

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in water)
Identification (elemental analysis)	C-Value 45.8% H-Value 8.1% N-Value 19.3% calc. x 0.65 H ₂ O (4%)
Identification (TLC)	Rf value in agreement with authentic material
Specific optical rotation	[α] _D ²⁴ = - 6.9 ° (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)	93.7% (Nth 20.42%, Nfd 19.13%)
Water content (KF volumetric)	3.8%

Latest update: September 17, 2020

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