

Analytical Data Sheet

Lot number **1000049648**
not for drug use

Product Bz-Arg-OEt · HCl
Product number **4002371.0100**
Molecular formula C₁₅H₂₂N₄O₃ · HCl
Relative molecular mass 342.83

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in water)
Identification (elemental analysis)	C-Value 52.6% H-Value 6.8% N-Value 16.3%
Identification (TLC)	complies with authentic material
Melting point	132°C
Specific optical rotation	$[\alpha]_D^{24} = -17.3^\circ$ (2% in water)
Purity (TLC)	>99%
Related impurities (TLC)	<0.1% H-Arg-OEt · 2 HCl <0.1% Bz-Arg-OH · HCl
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H ₂ O 60/30/9/16.5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	0.13% D-enantiomer
Water content (KF volumetric)	0.1%
Chloride content (titration)	10.4%

Latest update: April 29, 2021

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