

Analytical Data Sheet

Lot number

1047442

not for drug use

Catalog Number	E-1360.1000
Product number	4030316.1000
Product	H- Arg- OH
Molecular formula	$C_6H_{14}N_4O_2$
Relative molecular mass	174.20

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in 1N HCl)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 41.4 %</td> <td>C = 41.2 %</td> </tr> <tr> <td>H = 8.1 %</td> <td>H = 8.1 %</td> </tr> <tr> <td>N = 32.3 %</td> <td>N = 32.3 %</td> </tr> </table>	Theory	Found	C = 41.4 %	C = 41.2 %	H = 8.1 %	H = 8.1 %	N = 32.3 %	N = 32.3 %
Theory	Found								
C = 41.4 %	C = 41.2 %								
H = 8.1 %	H = 8.1 %								
N = 32.3 %	N = 32.3 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +25.3^\circ$ (5 % in 1N HCl)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	< 0.1% D-enantiomer								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	98.6% (Cth 32.16%, Cfd 31.69%)								
Water content (KF volumetric)	1.2%								
Latest update: March 22, 2013	Analytical Data Sheet Lot number 1047442								