

Analytical Data Sheet

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| Lot number | 1000036157 not for drug use |
| Product | H-Arg-βNA · HCl |
| Product number | 4000556.0005 |
| Molecular formula | C ₁₆ H ₂₁ N ₅ O · HCl |
| Relative molecular mass | 335.84 |

| Tests | Results |
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| Appearance | white powder |
| Appearance of solution | clear, colorless solution (50 mg/mL in methanol) |
| Identification (elemental analysis) | Theory Found C = 57.2% C = 57.3% H = 6.6% H = 6.5% N = 20.9% N = 21.0% calc. x 1.0 HCl |
| Identification (TLC) | complies with authentic material |
| Melting point | 188 °C |
| Specific optical rotation | [α] _D ²⁴ = + 27.7° (2% in methanol) |
| Purity (TLC) | > 99% |
| TLC conditions | chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/ H ₂ O 6/5/1/3 n-butanol/acetic acid/ H ₂ O 4/2/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine |
| Assay (elemental analysis) | 100.8% (Nth 20.85%, Nfd 21.01%) calc. x 1 HCl |
| Chloride content (titration) | 10.6% (AgNO ₃) |