



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalog Number	04-303
Product Name	H-Arg-OMe•2HCl L-Arginine methyl ester dihydrochloride
Lot Number	501802
CAS Registry Number	26340-89-6
Molecular Formula	C ₇ H ₁₆ N ₄ O ₂ •2HCl
Molecular Weight	261.2
Melting Point	190°-193°C
Appearance	White product
Solubility 50mg/ml in Methanol	Clear, colorless solution
Specific Rotation (α^24_D)	+20.7° (2.5%, Methanol)
Elemental Analysis (actual)	C 32.15%, H 7.04%, N 21.37% Calc. as 2HCl (=3.8%)
Elemental Analysis (theory)	C 32.19%, H 6.95%, N 21.45% Calc. as 2HCl (=3.8%)
Infrared Spectrum	Conforms to reference
Identity (TLC)	
n-Butanol/Acetic Acid/H ₂ O 4/2/2 (v/v/v)	Plate: Silicagel 60 F ₂₅₄
Chloroform/Methanol/acetic Acid 32% 5/3/1 (v/v/v)	Detected by: Ninhydrin, Chlorine-Tolidine
Ethylacetate/Pyridine/Acetic Acid/H ₂ O (v/v/v/v) 60/60/12/36	>99%
Content	Product.....98.9% Cl.....26.9% D-Isomer....<0.1%
Storage	Store at -0°C