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Certificate of Analysis

Catalogue Number	03295
Product	S-(2-Aminoethyl-L-cysteine hydrochloride)
Lot Number	000127-1068933
CAS Number	L-Cys(aminoethyl)-OH•HCl 4099-35-8
Molecular Formula	C ₃ H ₁₂ N ₂ O ₂ S•HCl
Molecular Weight	200.7

Appearance	Slightly beige powder
Solubility	Clear, slightly beige solution (50 mg/ml in water)
Melting Point	201 °C
Elemental Analysis (Found)	C = 29.7%; H = 6.0%; N = 13.8% Calc. x 0.95 HCl (17.3%) x 0.08 H ₂ O (0.7%)
TLC System	Methanol/chloroform/ammonia 17% (2:2:1) Isopropanol/ammonia conc. (1:1) n-butanol/acetic acid/H ₂ O (4:2:2) Plate: Silicagel 60 F ₂₅₄ Detected by UV, chlorine-tolidine
Optical Rotation	[α] _D ²⁴ = - 6.6 ° (C=1%, in Water)
Titration	Chloride (Cl ⁻): 17.3% (AgNO ₃)
Assay	98.6% (Nth 13.96%, Nfd 13.758%)
Purity by TLC	> 99%
Storage	Store at 0-8 °C

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Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager