

Analytical Data Sheet

Lot number **1075150**
not for drug use

Catalog number **Q-1365.0100**
Product number **4002126.0100**
Product **Oxythiamine · HCl**
Molecular formula **C₁₂H₁₆ClN₃O₂S · HCl**
Relative molecular mass **338.26**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH) (after 10 min in ultrasonic bath)
Identification (elemental analysis)	Theory Found C = 41.6% C = 41.8% H = 5.2% H = 4.9% N = 12.1% N = 12.0% calc. as 0.45 H ₂ O (2.3% H ₂ O)
Identification (TLC)	complies with authentic material
Purity (TLC)	95%
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/60/12/36 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Assay (elemental analysis)	96.9% (Nth 12.42%, Nfd 12.04%)
Water content (KF volumetric)	2.4%
Chloride content (titration)	20.8%

Latest update: January 16, 2018

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