



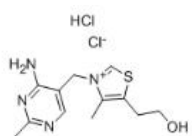
HANGZHOU DINGYAN CHEM CO.,LTD

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CERTIFICATE OF ANALYSIS

NO: DYC1619011703

Product name	Vitamin B1(Thiamine Hydrochloride)
CAS Number	67-03-8
Molecule Structure	
Molecule Formula	C ₁₂ H ₁₈ Cl ₂ N ₄ O ₄ S
Batch number	20181208
Manufacture Date	2018-12-08
Testing date	2018-12-08

Items	Standard	Result
Identification	A: IR absorption; B: Tests of chloride	Complies
Absorbance of solution	≤0.025	0.014
pH	2.7 ~ 3.4	3.2
Limit of nitrate	No brown ring produced at the junction of the two layers	Complies
Water	≤5.0%	3.10%
Residue on ignition	≤0.2%	0.01%
Related compounds	≤1.0%	0.02%
Residual solvent	Methanol ≤0.3%	0.0033%
	Ethanol ≤0.5%	Not detected
Assay (on anhydrous basis)	98.0% ~ 102.0%	99.7%

Hangzhou Dingyan Chem Co., Ltd.
Quality Control
QUALITY CONTROL:  CHECK: 姚仙娟 INSPECTOR: 刘清风