



华中药业股份有限公司
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CERTIFICATE OF ANALYSIS

Product Name: THIAMINE MONONITRATE (VITAMIN B1 FEED GRADE) Batch No.: Y02201902041

Manufacturing Date: Feb.18,2019 Reporting Date: Feb.21,2019

Expiry Date: Feb.17,2021 Quantity: 2500KGS

Specification:BP2018/USP41

Test Item	Specification	Result
Appearance	white or almost white crystalline powder or colourless crystals	White crystalline powder
Identification	(1) should be positive reaction (2) Consistent with the reference IR spectra	(1) positive reaction (2) Consistent with the reference IR spectra
PH	6.8~7.5	7.0
Appearance of solution	clear,not more instense than Y7	clear,not more instense than Y7
Heavy metals	NMT20ppm	<20 ppm
Chloride	NMT600ppm	<600 ppm
Loss on drying	NMT1.0%	0.20 %
Residue on ignition	NMT0.1%	0.06 %
Residual Solvents		
—Methanol	NMT0.30%	<0.3 %
—Ethanol	NMT0.50%	<0.5 %
Related substances (Disregard limit 0.05%)		
—Any impurity	NMT1.0%	0.02 %
—Total impurities	NMT1.5%	0.17 %
Assay	98.0 ~ 101.0%	100.0 %

Conclusion:This batch complies with the specification of BP2018/USP41

Report by: HE XIULING

Approved by: