

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: THIAMINE MONONITRATE (VITAMIN B1 MONO)**

**BATCH NUMBER: Y022016044133**

**QUANTITY: 1000KG**

**REPORTING DATE:2016.04.13**

**MANUFACTURE DATE: 2016.04.12**

**EXPIRY DATE: 2019.04.11**

**SPECIFICATION:BP2015/USP38**

ITEMS	SPECIFICATIONS	RESULTS
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
Appearance of solution	Clear,not more intense than Y7	Clear, not more intense than Y7
PH	6.8~7.5	7.1
Heavy metals	NMT20ppm	<20ppm
Chloride	NMT600ppm	<300ppm
Loss on drying	NMT 1.0%	0.6%
Residue on ignition	NMT0.1%	0.06%
<b>Residual Solvent</b>		
-Methanol	NMT0.3%	<0.3%
-Ethanol	NMT0.5%	<0.5%
<b>Related substances(Disregard limit 0.05%)</b>		
-Any impurity	NMT1.0%	0.22%
-Total impurities	NMT1.5%	0.37%
<b>Assay</b>	98.0~101.0%	99.8%
<b>Conclusion: The batch complies with the specification of BP2015/USP38</b>		