

**ACROSS BIOTECH**

MAKE A DIFFERENCE

Certificate of Analysis

Item:	Thiamine mononitrate feed grade	Cas No.:	532-43-4
Manufacturing Date:	04.10,2019	Bath No:	201904102
Expiry Date:	04.09,2021	Quantity:	1000KGS
Package	25kg/drum	Standard:	BP2018/USP41

Test Item	Specification	Result
Appearance	White or almost white crystalline powder or crystals	Passed
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	Passed
PH	6.8-7.5	7.1
Chloride	NMT600ppm	<600ppm
Loss on drying	NMT 1.0%	0.2%
Residue on ignition	NMT0.1%	0.06%
Residual Solvents		
Methanol	NMT0.3%	<0.3%
Ethanol	NMT0.5%	<0.5%
Related substances (Disregard limit 0.05%)		
Any impurity	NMT0.1%	<0.02%
Total impurities	NMT1.0%	<0.23%
Impurity A	NMT0.15%	0.10%
Impurity B	NMT0.6%	0.01%
Impurity C	NMT0.4%	0.01%
Assay	98.5-101.0%	99.8%
Conclusion: This batch complies with the specification of BP2018/USP41		

Inspector: Meng Cheng

Checker: Yun Li