

COA Thiamine HCL

Item	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	Consistent with the reference IR spectra
Appearance of solution	Clear, not more intense than Y7	Clear, not more intense than Y7
Assay	98.5%-101.0%	99.9%
Ph	2.7-3.3	3.0
Sulphates	$\leq 300\text{ppm}$	$< 300\text{ppm}$
Limit of nitrate	No brown ring	No brown ring
Heavy metals	$\leq 20\text{ppm}$	$< 20\text{ppm}$
Water	$\leq 5.0\%$	1.2%
Residue on ignition	$\leq 0.1\%$	0.03%
Absorbance of solution	$\leq 0.025\%$	0.024%
Residual Solvents		
Methanol	$\leq 0.3\%$	$< 0.3\%$
Ethanol	$\leq 0.5\%$	$< 0.5\%$
Related substances (Disregard limit 0.05%)		
Any impurity	$\leq 0.4\%$	0.05%
Total impurities	$\leq 1.0\%$	0.14%
Conclusion	The results conforms with specification of BP2015/USP38	