



**山东新华制药股份有限公司**

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### Specification of Caffeine

Updated Data: Jan 4, 2013

Commodity: Caffeine BP/ EP/ USP

Items	Specification
Appearance	White crystalline powder
Identification	Complies
Melting point (°C)	234-239
Appearance of solution	Clear and colorless
Acidity	Conform
Chromatographic purity:	
Single impurity (%)	≤ 0.10
Total impurities (%)	≤ 0.1
Sulphate (ppm)	≤ 500
Heavy metals (on Pb basis, %)	≤ 0.001
Loss on drying (%)	≤ 0.5
Residue on ignition (%)	≤ 0.1
Sulphate Ash (%)	≤ 0.1
Assay (%)	98.5-101.5
Residual solvents (Chloroform, ppm)	≤ 60
HPLC assay (%)	98.5-101.0%