



CSPC INNOVATION PHARMACEUTICAL CO., LTD.

CERTIFICATE OF PRODUCT ANALYSIS

No.: REC-ZL-G6102 (04)

Product: Caffeine (Anhydrous) Batch No.: 1031503523 Quantity: 1000 kg
Analysis Standard: BP2014, EP8.0, USP37 Analysis Date: 2015.03.27 Report Date: 2015.03.30
Manu. Date: 2015.03 Retest Date: 2019.02

Analysis Contents	Analysis Standards	Analysis Results
【Characters】		
Appearance	White or almost white, crystalline powder (BP/EP) or silky, white or almost white, crystals	White crystalline powder
【Identification】		
A. Melting point	234~239°C (BP/EP)	236.1~236.8°C
B. Infrared Absorption	Conforms to the caffeine Reference Spectrum (BP/EP)	Pass
E. Loss on drying	See Tests (BP/EP)	Pass
【Tests】		
Appearance of solution	Clear, colourless (BP/EP)	Pass
Heavy metals	≤10ppm (USP)	<10ppm
Sulphates	≤500ppm (BP/EP)	<500ppm
Related substances		
-Each impurity A, B, C, D, E, F	≤0.10% (BP/EP)	<0.10%
-Unspecified impurities	≤0.10% (BP/EP)	<0.10%
-Total impurities	≤0.1% (BP/EP)	<0.1%
Acidity	Not more than 0.2ml of 0.01M sodium hydroxide (BP/EP)	<0.2ml
Organic impurities		
-Individual impurities	≤0.1% (USP)	<0.1%
-Total impurities	≤0.1% (USP)	<0.1%
Loss on drying	≤0.5% (BP/EP)	0.08%
Residue on ignition	≤0.1% (USP)	0.04%
【Assay】	98.5%~101.0% (USP)	99.8%
Conclusion: The above product conforms to BP2014, EP8.0, USP37 requirement on Caffeine		

Chief of Quality Analysis Dept:

Rechecker: 杨晓红

Reporter: 24-72

Address: No.36 Fuqiang Western Road, Luancheng County, Shi Jiazhuang City, Hebei Province, China

Tel: +86 311 85408618 +86 311 85408725 Fax: +86 311 85409463

