## CSPC INNOVATION PHARMACEUTICAL CO., LTD.

## CERTIFICATE OF PRODUCT ANALYSIS

No.: REC-ZL-G6114(01)

		NO.: REC-ZL-G0114(01)
Product: Caffeine (Anhydro	bus) Batch No.: 1032307552 Trace:20	Quantity: 1000 kg
Analysis Standard: BP2023, EF		02 Report Date: 2023.08.07
Manu. Date: <u>2023.07</u>	Retest Date: 2028.06	
Analysis Contents	Analysis Standards	Analysis Results
[Characters]	contentant 🗸 statemen, de senjusidades place	
Appearance	White crystalline powder	White crystalline powder
	or silky, white crystals	
Solubility	Sparingly soluble in water, freely soluble	Pass
20202223	in boiling water, slightly soluble in	
	ethanol (96percent). It dissolves in	
	concentrated solutions of alkali benzoates	
	or salicylates. It sublimes readily	
【Identification】(USP/FCC		
*A, Infrared Absorption	Conforms to the USP Caffeine RS	Pass
B. The retention time	Corresponds to the Standard	Pass
of caffeine peak	preparation obtained in the Assay	
[Tests]		
Appearance of solution (F	BP/EP) Clear 、colourless	Pass
Sulphates (BP/EP)	≤500ppm	<500ppm
Sulphated ash (BP/EP)	<b>≤</b> 0. 1%	0.05%
Loss on drying (BP/EP)	<b>≤</b> 0. 5%	0.07%
Organic impurities (USP)	The state of the s	
-Individual impurities	≤0.1%	<0.1%
-Total impurities	≤0.1%	<0.1%
*Related substances (BP/I	EP)	
-Each impurity A. B. C. I	D、E、F ≤0.10%	<0.10%
-Unspecified impurities	≤0.10%	<0.10%
-Total impurities	≤0.10%	<0.10%
*Acidity (BP/EP)	Not more than 0.2ml of 0.01M sodium hydrox	ide <0.2m1
*Lead (FCC)	≤1mg/kg	<1mg/kg
*Other Alkaloids (FCC)	No precipitate is formed	Pass
*Melting Range(FCC)	235~237.5 ℃	Pass
*Readily Carbonizable Sul	bstances (FCC) Passes Test	Pass
【Assay】(USP)	98.5%~101.0%	99. 9%
Conclusion: The above	product conforms to BP2023、EP11.0、USP2021、FC	C12 requirement on Caffeine
Remark: "*" means this i	tem is spot test.	
		•

Chief of Quality Analysis Dept:

Rechecker:

Address: No. 62 Zhangju Road, Luancheng County, Shi Jiazhuang City, Hebei Province, China

Tel: +86 311 85408723 +86 311 85408725

Fax: +86 311 85409463