

## CSPC INNOVATION PHARMACEUTICAL CO., LTD.

## CERTIFICATE OF PRODUCT ANALYSIS

No.: REC-ZL-G6114(01)

Product: <u>Caffeine (Anhydrous)</u>	Batch No.: 1032106710 Trace: 01	Quantity: 2000 kg
Analysis Standard: BP2020, EP10.0	<u>USP42、FCC11</u> Analysis Date: <u>2021.06.13</u>	Report Date: 2021.06.16
Manu. Date: <u>2021.06</u> Retest Date: <u>2025.05</u>		
Analysis Contents	Analysis Standards	Analysis Results
(Characters)		State of the state
Appearance	White crystalline powder	White crystalline powder
	or silky, white crystals	
Solubility Spar	ingly soluble in water, freely soluble	Pass
in l	poiling water, slightly soluble in	
ethanol (96percent). It dissolves in		
concentrated solutions of alkali benzoates		
or s	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 (BP/EP)	Clear , colourless	Pass
Sulphates (BP/EP)	≤500ppm	<500ppm
Sulphated ash (BP/EP)	≤0.1%	0.04%
Loss on drying (BP/EP)	≤0.5%	0.07%
Organic impurities (USP)		
-Individual impurities	≤0.1%	<0.1%
-Total impurities	≤0.1%	<0.1%
*Related substances (BP/EP)	<b>一</b>	
-Each impurity A, B, C, D, E, I	≤0.10%	<0.10%
-Unspecified impurities	≤0.10%	<0.10%
-Total impurities	≤0.10%	<0.10%
*Acidity (BP/EP) No	ot more than 0.2ml of 0.01M sodium hydroxid	e <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 Substance	es (FCC) Passes Test	Pass
【Assay】 (USP)	98.5%~101.0%	99. 9%
Conclusion: The above product	conforms to BP2020、EP10.0、USP42、FCC11	requirement on Caffeine

Chief of Quality Analysis Dept:

Remark: "\*" means this item is spot test.

周云雪

Rechecker: 25 3

Reporter:

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