

CSPC INNOVATION PHARMACEUTICAL CO., LTD.

CERTIFICATE OF PRODUCT ANALYSIS

No.: REC-ZL-G6114(01)

Product: <u>Caffeine (Anhydrous)</u>	Batch No.: <u>1032406732 Trace:01</u>	Quantity: 2000 kg
Analysis Standard: BP2024, EP11.0) <u>, USP2024, FCC12</u> Analysis Date: <u>2024.06</u> .	.11 Report Date: 2024.06.19
Manu. Date: 2024.06	Retest Date: <u>2029.05</u>	
Analysis Contents	Analysis Standards	Analysis Results
【Characters】	0.40(\$20)044004	
Appearance	White crystalline powder	White crystalline powder
преагансс	or silky, white crystals	
Solubility Spa	aringly soluble in water, freely soluble	Pass
	n boiling water, slightly soluble in	
	thanol(96percent). It dissolves in	
	oncentrated solutions of alkali benzoates	
	r salicylates.It sublimes readily	
【Identification】(USP/FCC)	, sallo, sal	
*A. Infrared Absorption	Conforms to the USP Caffeine RS	Pass
R. The retention time	Corresponds to the Standard	Pass
D. (111)	preparation obtained in the Assay	
of caffeine peak	proparation establish	
【Tests】 Appearance of solution (BP/E	P) Clear , colourless	Pass
	≤500ppm	<500ppm
Sulphates (BP/EP)	≤0.1%	0.03%
Sulphated ash (BP/EP)	≤0.5%	0. 05%
Loss on drying (BP/EP)	an.	15 to a
Organic impurities (USP)	≤0.1%	○ 1%
-Individual impurities	≤0.1%	<0.1%
-Total impurities	每	
*Related substances (BP/EP)	C. F. ≤0.10%	<0.10%
-Each impurity A、B、C、D、E	≤0.10%	<0.10%
-Unspecified impurities	≤0. 10%	< 0. 10%
-Total impurities	Not more than 0.2ml of 0.01M sodium hydro	oxide <0.2m1
*Acidity (BP/EP)	≤ 1mg/kg	<1mg/kg
*Lead (FCC)	No precipitate is formed	Pass
*Other Alkaloids (FCC)	235~237.5 °C	Pass
*Melting Range(FCC)		Pass
*Readily Carbonizable Substa	98. 5%~101. 0%	100. 1%
【Assay】(USP)	duct conforms to BP2024、EP11.0、USP2024、I	FCC12 requirement on Caffein
Remark: "*" means this item	is spot test.	

Chief of Quality Analysis Dept 梁彭欣

Rechecker:

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