

## CSPC INNOVATION PHARMACEUTICAL CO., LTD.

## CERTIFICATE OF PRODUCT ANALYSIS

No.: REC-ZL-G6114(01)

Product: Caffeine (Anhydrous) Batch No.: 1032405743 Trace:10 Quantity: 2000 kg Analysis Standard: BP2024, EP11.0, USP2024, FCC12 Analysis Date: 2024.05.18 Report Date: 2024.05.23 Manu. Date: 2024.05 Retest Date: 2029.04 Analysis Standards Analysis Results Analysis Contents [Characters] White crystalline powder White crystalline powder Appearance or silky, white crystals Pass Solubility Sparingly soluble in water, freely soluble in boiling water, slightly soluble in ethanol (96percent). It dissolves in concentrated solutions of alkali benzoates or salicylates. It sublimes readily 【Identification】(USP/FCC) Conforms to the USP Caffeine RS Pass \*A, Infrared Absorption 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 <500ppm Sulphates (BP/EP) ≤500ppm ≤0.1% 0.01% Sulphated ash (BP/EP) 0.02% ≤0.5% Loss on drying (BP/EP) Organic impurities (USP) < 0.1% $\leq 0.1\%$ -Individual impurities < 0.1% $\leq 0.1\%$ -Total impurities \*Related substances (BP/EP) <0.10% -Each impurity A. B. C. D. E. F ≤0.10% ≤0.10% < 0.10%-Unspecified impurities ≤0.10% < 0.10%-Total impurities < 0.2 m1Not more than 0.2ml of 0.01M sodium hydroxide \*Acidity (BP/EP) <1mg/kg \*Lead (FCC) ≤lmg/kg Pass \*Other Alkaloids (FCC) No precipitate is formed 235~237.5 ℃ Pass \*Melting Range (FCC) Pass \*Readily Carbonizable Substances (FCC) Passes Test 98.5%~101.0% 【Assay】(USP) The above product conforms to BP2024, EP11.0, USP2024, FCC12 requirement on Caffeine Conclusion: Remark: "\*" means this item is spot test.

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