

CSPC INNOVATION PHARMACEUTICAL CO., LTD.

CERTIFICATE OF PRODUCT ANALYSIS

No.: REC-ZL-G6114(01)

Product: Caffeine (Anhydrous) Batch No.: 1032308512 Trace:16 Quantity: 1000 kg Analysis Standard: BP2023, EP11.0, USP2021, FCC12 Analysis Date: 2023.08.17 Report Date: 2023.08.22 Manu. Date: _2023.08 Retest Date: 2028.07 Analysis Contents Analysis Standards Analysis Results (Characters) Appearance White crystalline powder White crystalline powder or silky, white crystals Solubility Sparingly soluble in water, freely soluble Pass 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 (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% 0.05% Organic impurities (USP) -Individual impurities ≤0.1% < 0.1%-Total impurities ≤0.1% < 0.1%*Related substances (BP/EP) -Each impurity A, B, C, D, E, F $\leq 0.10\%$ < 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 hydroxide < 0.2 m1*Lead (FCC) ≤1mg/kg <1mg/kg *Other Alkaloids (FCC) No precipitate is formed Pass *Melting Range (FCC) 235~237.5 ℃ Pass *Readily Carbonizable Substances (FCC) Passes Test Pass (Assay) (USP) 98.5%~101.0% 99.8% Conclusion: The above product conforms to BP2023, EP11.0, USP2021, FCC12 requirement on Caffeine Remark: "*" means this item is spot test.

Chief of Quality Analysis Dept:

Rechecker: 大乡传传

Reporter: 125

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Chief of Quality Analysis Dept:

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梁彭欣

Rechecker:

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Chief of Quality Analysis Dept:

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