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No.: REC-ZL-G6114(01)

Product: Caffeine (Anhydrous) Batch No.: 1032006015 Trace: 09 Quantity: 1000 kg

Analysis Standard: BP2020、EP10.0、USP42、FCC11 Analysis Date: 2020.06.05 Report Date: 2020.06.09

Manu. Date: 2020.06.03 Retest Date: 2024.06.02

Analysis Contents	Analysis Standards	Analysis Results
【Characters】		
Appearance	White crystalline powder or silky, white crystals	White crystalline powder
【Identification】(USP/FCC)		
A、Infrared Absorption	Conforms to the USP Caffeine RS	Pass
B、The retention time of caffeine peak	Corresponds to the Standard preparation obtained in the Assay	Pass
【Tests】		
Appearance of solution (BP/EP)	Clear 、colourless	Pass
Sulphates (BP/EP)	≤500ppm	<500ppm
Related substances (BP/EP)		
-Each impurity A、B、C、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 hydroxide	<0.2ml
Organic impurities (USP)		
-Individual impurities	≤0.1%	<0.1%
-Total impurities	≤0.1%	<0.1%
Lead (FCC)	≤1mg/kg	<1mg/kg
Other Alkaloids (FCC)	No precipitate is formed	Pass
Melting Range(FCC)	235～237.5 ℃	236.0～236.7℃
Readily Carbonizable Substances (FCC)	Passes Test	Pass
Loss on drying (BP/EP)	≤0.5%	0.09%
Sulphated ash (BP/EP)	≤0.1%	0.04%
【Assay】(USP)	98.5%～101.0%	99.9%

Conclusion: The above product conforms to BP2020、EP10.0、USP42、FCC11 requirement on Caffeine

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