



Certificate of Analysis Caffeine Powder

Chemistry Connection
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Product: Caffeine (Anhydrous) Batch No. : 1032007067 Quantity: 1000 kg
Analysis Standard: BP2020、USP42、FCC11 Analysis Date: 2020.07.12 Report Date: 2020.09.04
Manu. Date: 2020.07.10 Retest Date: 2024.07.09

Analysis Contents

Analysis Standards

Analysis Results

【Characters】(FCC)

Appearance

White crystalline powder
or silky, white crystals

White crystalline powder

【Identification】(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)

Clear、colourless

Pass

Heavy metals

≤10ppm

<10ppm

Sulphates (BP)

≤500ppm

<500ppm

Acidity (BP)

Not more than 0.2ml of 0.01M sodium hydroxide

<0.2ml

Organic impurities (USP)

- Any individual impurities

<0.1%

-Total impurities

<0.1%

Related substances (BP)

-Each impurity A、B、C、D、E、F

≤0.10%

<0.10%

-Unspecified impurities

≤0.10%

<0.10%

-Total impurities

≤0.10%

<0.10%

Lead (FCC)

≤1mg/kg

<1mg/kg

Other Alkaloids (FCC)

No precipitate is formed

Pass

Readily Carbonizable Substances (FCC)

Passes Test

Pass

Melting Range (FCC)

235~237.5 °C

236.2~236.8°C

Loss on drying (BP)

≤0.5%

0.04%

Sulphated ash (BP)

≤0.1%

0.04%

【Assay】(USP)

98.5%~101.0%

100.0%

【Additional items】

Total Account Of Aerobic Bacteria

≤100cfu/g

Pass

Yeast & Mold

≤100cfu/g

Pass

E. coli

Negative

Pass

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

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