

### Certificate of Analysis

**Product: Caffeine Anhydrous**  
**Item Number: CAFU**  
**Grade: USP**  
**Lot Number: 2205798**  
**Manufacture Date: 05/05/2022**  
**Expiration Date: 05/04/2026**  
**Country of Origin: China**

Tested Property	Specification	Analysis
Appearance	White crystalline powder	Pass
Assay, (dried basis) HPLC	98.5 - 101.0%	99.5
Assay, (dried basis)	98.5 - 101.5%	99.9
Identification by IR	Conforms to reference spectrum	Passes
Identification by HPLC	Conforms to the chromatogram of the standard preparation	Passes
Appearance of solution	Clear and Colorless	Passes
Melting Point	234 - 239°, °C	236.6°, °C
Acidity (0.01mol/L NaOH)	≤0.002 ml	Passes
Organic Impurities: Individual impurities	≤0.1%	0.05
Total impurities	≤0.1%	0.08
Heavy metal (on Pb basis)	≤0.001%	<0.001
Loss on drying	≤0.5%	0.1
Residue on ignition	≤0.1%	0.05
Sulfated ash	≤0.1%	0.05
Sulfate	≤500 ppm	<500
Residual Solvents (Chloroform)	≤60 ppm	Conforms

This product is tested in accordance with BP2021/EP10.0/USP2021/R1-CEP 2003-027-Rev03.

#### [Caffeine Anhydrous](#)

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