

Certificate of Analysis

Product: Caffeine Powder, USP/FCC/Food Grade, Kosher, Halal

Item Number: CAFU

CAS#: 58-08-2

Grade: USP/FCC

Lot Number: 5002584/1.1

Manufacture Date: 07/12/2026

Expiration Date: 07/14/2029

Country of Origin: China

Tested Property	Specification	Analysis
Appearance	White crystalline powder	Passes
Identification A-: IR	Conforms to USP Caffeine RS	Passes
Identification B: Peak Retention Time	Conforms to Standard obtained in assay	Passes
Appearance of Solutions	Clear, colorless	Passes
Sulphates	≤500 ppm	<500 ppm
Related Substances: Impurity A/B/C/D/E/F	≤0.10%	<0.10%
Related Substances: Unspecified Impurities	≤0.10%	<0.10%
Related Substances: Total Impurities	≤0.10%	<0.10%
Acidity	≤0.2mL of 0.01M NaOH	<0.2mL
Organic Impurities: Individual	≤0.10%	<0.10%
Organic Impurities: Total	≤0.10%	<0.10%
Other Alkaloids	No precipitate is formed	Passes
Melting Range	235 - 237.5°C	236.2 - 236.8°C
Readily Carbonizable Substances	Pass Test	Passes
Loss on Drying	≤0.5%	0.06%
Residue on Ignition	≤0.10%	<0.04%
Assay	98.0 - 102.0%	99.9%
Mesh	≥95% through 40 mesh	Passes
Odor	Odorless	Passes
Flavor	Bitter	Passes

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Heavy Metals	≤10 ppm	<10 ppm
Arsenic	≤1.5 ppm	Passes
Cadmium	≤0.5 ppm	Passes
Lead	≤0.5 ppm	Passes
Mercury	≤0.2 ppm	Passes
pH	5.5 - 6.5	Passes
Residual Solvents: Chloroform	≤60 ppm	Passes
Microbiological:		
Staphylococcus aureus	Negative/1g	Passes
Salmonella	Negative/10g	Passes
Coliforms	<10cfu/g	Passes
E. coli	Negative	Passes
Yeast and Mold	≤100cfu/g	Passes
Total Count of Aerobic Bacteria	≤1000cfu/g	Passes

Store in a cool, dry, and well-ventilated environment.

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