

**Certificate of Analysis**

**Product: Caffeine Powder, USP/FCC/Food Grade, Kosher, Halal**  
**Item Number: CAFU**  
**CAS#: 58-08-2**  
**Grade: USP/FCC**  
**Lot Number: 5001976/1.1**  
**Manufacture Date: 09/29/2025**  
**Expiration Date: 09/28/2028**  
**Country of Origin: China**

<b>Tested Property</b>	<b>Specification</b>	<b>Analysis</b>
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
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	<0.2
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	236.0 - 236.8
Readily Carbonizable Substances	Pass Test	Passes
Loss on Drying	≤0.5%	0.05
Residue on Ignition	≤0.10%	<0.03
Assay	98.0 - 102.0%	99.8
Mesh	≥95% through 40 mesh	Passes
Odor	Odorless	Passes
Flavor	Bitter	Passes

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Heavy Metals	≤10 ppm	<10
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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Note: The information and recommendations of Lab Alley concerning this product are based upon laboratory tests and experience. To the best of our knowledge and belief these are true and accurate, however Lab Alley assumes no obligation or liability for the information in this document. Since conditions of actual use are beyond our control, any recommendations or suggestions regarding merchantability and fitness for particular purposes are made without warranty, expressed or implied.

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