

### Certificate of Analysis

**Product: Caffeine Powder**  
**Item Number: CAFU**  
**Grade: USP/FCC**  
**Lot Number: 5000942/1.1**  
**Manufacture Date: 04/04/2024**  
**Expiration Date: 04/03/2029**  
**Country of Origin: United States**

Tested Property	Specification	Analysis
Appearance	White crystalline powder	Passes
Identification A and B	To Pass Test	Passes
Assay	98.5 - 101.0%	99.9
Sulfate	≤500 ppm	<500
Individual Organic Impurities	≤0.1%	<0.1
Total Impurities	≤0.1%	<0.1
Acidity	Max 0.2 mL of 0.01M NaOH	<0.2
Other Alkaloids	No precipitate is formed	Passes
Melting Range	235 - 237.5°C	235.9 - 236.6°C
Readily Carbonizable Substances	To Pass Test	Passes
Loss on Drying	≤0.5%	0.04
Residue on Ignition	≤0.1%	0.03
Mesh	≥95% through 40 mesh	Passes
Odor	Odorless	Passes
Flavor	Bitter	Passes
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

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pH	5.5 - 6.5	Passes
Residual Solvents (Chloroform)	≤60 ppm	Passes
Microbiological		
Total Count of Aerobic Bacteria	≤1000 cfu/g	Passes
Yeast and Mold	≤100 cfu/g	Passes
E.coli	Negative	Passes
Coliforms	<10 cfu/g	Passes
Salmonella	Negative	Passes
Staphylococcus aureus	Negative	Passes

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