

Certificate of Analysis

Product: Caffeine Powder
Item Number: CAFU
Grade: USP/FCC
Lot Number: 5001193/1.1
Manufacture Date: 11/11/2024
Expiration Date: 11/10/2029
Country of Origin: China

Tested Property	Specification	Analysis
Appearance	White crystalline powder	Passes
Identification A-IR and B-retention time	To Pass Test	Passes
Assay	98.5 - 101.0%	99.9
Sulfate	≤500 ppm	<500
Organic Impurities-Individual	≤0.1%	<0.1
Organic Impurities-total	≤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	236.0 - 236.5°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 tests:		
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/10 g	Passes
Staphylococcus aureus	Negative/10g	Passes

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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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