LiquidShop
613 Rte du Président-Kennedy, porte 6
Lévis, QC G6C 1J6 · CAN

CERTIFICATE OF ANALYSIS

Item Name:	Caffeine Anhydrous Powder	**Batch / Lot Number:**	1032406729
Item Number:	CAFFEINE_ANHYDROUS	**Manufacturing Date:**	2024-06-04
Country of Origin:	China	**Best Before / Retest:**	2029-06-03

Test	Test Result	Specification	UOM	Method
Description	Crystalline powder	Powder		Organoleptic
Colour	Complies	White		Organoleptic
Odour	Complies	Odourless		Organoleptic
Taste	Complies	Bitter		Organoleptic
Mesh Size	Complies	≥ 95 % through #40 mesh		USP <786>
Loss on Drying	0.07	≤ 10.0 (w/w)	%	USP <731>
Residue on Ignition	0.03	≤ 0.1	%	USP <281>
Assay	100	98.5 – 101.0	%	USP
Identification A (IR absorption)	Complies	Conforms to USP Caffeine RS		IR
Identification B (retention time)	Complies	Corresponds to standard preparation		USP
Appearance of Solution	Complies	Clear and colourless		USP
Sulphate	Complies	≤ 500	ppm	USP <221>
Related Substances (total impurities)	Complies	≤ 0.10	%	USP
Acidity	Complies	≤ 0.2 mL of 0.01 M NaOH		USP
Other Alkaloids	Complies	No precipitate is formed		USP
Melting Range	236.1	235 – 237.5	°C	USP <741>
Readily Carbonisable Substances	Complies	Passes test		USP
pH	6.0	5.5 – 6.5		USP <791>
Total Heavy Metals	Complies	≤ 10	ppm	USP <231>
Lead (Pb)	0.002	≤ 0.5	ppm	USP <232>
Arsenic (As)	0.13	≤ 1.5	ppm	USP <232>
Mercury (Hg)	0.13	≤ 0.2	ppm	USP <232>
Cadmium (Cd)	0.003	≤ 0.5	ppm	USP <232>
Total Plate Count	17	≤ 10,000	CFU/g	USP <2021>
Yeast & Mould	5	≤ 1,000	CFU/g	USP <2021>
E. coli	Negative	Negative		USP <2022>
Salmonella	Negative	Negative		USP <2022>
Staphylococcus aureus	Negative	Negative		USP <2022>
Coliforms	Negative	≤ 10	CFU/g	USP <2021>

Conclusion

☒ This lot CONFORMS to the LiquidShop product specification. ☐ This lot DOES NOT CONFORM.

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Reviewed By (QA):	LiquidShop Quality Assurance	**Review Date:**	2026-10-08

This document was prepared electronically and reviewed by LiquidShop Quality Assurance. It is valid without a signature.

This Certificate of Analysis relates only to the batch identified above. Results as reported on the manufacturer's certificate of analysis.