

CERTIFICATE OF ANALYSIS

BG-GX/ZB/04.008-02

Rev02/2020 P2 / 2

Name	Anhydrous Caffeine	Manufacture Date	2024.07.18
Batch No	2012407110	Expiry Date	2029.07.17
Package	20kg/Carton	Test Date	2024.07.19
Batch Size	20000kg	Reporting time	2024.07.29
Inspection basis	EP 11.0, BP 2023, USP2023, FCC12, CP2020		
Items	Specifications	Results	
Water determination (USP2023)	$\leq 0.5\%$	0.1%	
Sulphated Ash (BP 2023, EP 11.0)	$\leq 0.1\%$	0.06%	
Organic impurities (USP2023)	Individual impurity $\leq 0.1\%$	0.03%	
	ties $\leq 0.1\%$	0.04%	
Assay (USP2023)	99.0%-101.0%	100.5%	
Other alkaloids (FCC)	Compliance	Complies	
Easy carbonization (FCC)	Compliance	Complies	
Heavy metal (CP)	$\leq 10\text{ppm}$	Complies	
Lead (FCC)	$\cong 0.5\text{ppm}$	Complies	
Arsenic	$\cong 1.5\text{ppm}$	Complies	
Mercury	$\cong 0.1\text{mg/kg}$	Complies	
Microbial Limit (CP)	Total aerobic bacteria $\leq 800\text{cfu/g}$	Complies	
	Total mold and yeast $\leq 80\text{cfu/g}$	Complies	
	Escherichia coli cannot be detected	Not detected	
	Coliforms: $< 10\text{cfu/g}$	Not detected	
	Staphylococcus Aureus Negative/25g	Complies	
	Total number of colonies $< 1000\text{cfu/g}$	Complies	
	Salmonella cannot be detected	Not detected	
Conclusion: The product complies with Caffeine test method EP 11.0, BP 2023, USP2023, FCC12, CP2020			

QC PASSED
 BY: RM