

CERTIFICATE OF ANALYSIS

SAMPLE NAME: PRIMO KAVA 30CT 100MG

SAMPLE CODE: DTS-241002-010

CLIENT: PRIMO KAVA/NUFACTURING

BATCH RESULT: PASS

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MATRIX NAME: Pill - Capsule
SAMPLE TYPE: Compliance
RECEIVED DATE: Thu, Oct 3, 2024
PUBLISHED DATE: Thu, Oct 10, 2024
BATCH/LOT CODE: PRK1002
BATCH SIZE: N/A
SAMPLE SIZE: 70g
AVERAGE UNIT WEIGHT: 0.5968g (1 capsule. 30 servings/package.)

KAVAL ✓ Kavalactones & Kavains	SOL ✓ Residual Solvents USP <467>	SAL ✓ Salmonella 25g qPCR	ECOLI ✓ Total E. Coli & Coliforms Plate	PGUSP ✓ Pesticides USP <561>
PLUSP ✓ Pesticides USP <561>	TAMC ✓ Total Aerobic Bacteria Plate	SAUR ✓ Staphylococcus aureus Plate	LMON ✓ Listeria monocytogenes qPCR	DTADT ✓ Opioid Adulterants
GLUTE ✓ Gluten ELISA	HVMET ✓ Heavy Metals 4	TYMFD ✓ Total Yeast & Mold Plate	PSEUD ✓ Pseudomonas aeruginosa Plate	

RESULTS REVIEWED BY: Leslie Varela
Laboratory Director
Cambium Analytica
Thursday, Oct 10, 2024

RESULTS CERTIFIED BY: Douglas Smith
VP - Scientific Operations
Cambium Analytica
Thursday, Oct 10, 2024

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KAVAL

KAVALACTONES & KAVAINSLAB-TM-067 - DETERMINATION OF KAVALACTONES & KAVAINS BY LC-DAD
KAVAL-DTS-241002-010-01 - MON, OCT 7, 2024

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Kavain	3.997 %	39.974 mg/g	23.86 mg	715.69 mg	N/A	0.25 ug/g	1 ug/g	N/A
Dihydrokavain	3.801 %	38.007 mg/g	22.68 mg	680.48 mg	N/A	0.25 ug/g	1 ug/g	N/A
Methysticin	3.585 %	35.848 mg/g	21.39 mg	641.82 mg	N/A	0.25 ug/g	1 ug/g	N/A
Dihydromethysticin	2.962 %	29.616 mg/g	17.67 mg	530.24 mg	N/A	0.25 ug/g	1 ug/g	N/A
Yangonin	2.172 %	21.720 mg/g	12.96 mg	388.88 mg	N/A	0.25 ug/g	1 ug/g	N/A
Desmethoxyyangonin	1.085 %	10.853 mg/g	6.48 mg	194.31 mg	N/A	0.25 ug/g	1 ug/g	N/A
Flavokavain A	0.184 %	1.838 mg/g	1.10 mg	32.91 mg	N/A	0.025 ug/g	0.1 ug/g	N/A
Flavokavain B	0.121 %	1.207 mg/g	0.72 mg	21.61 mg	N/A	0.025 ug/g	0.1 ug/g	N/A
Total Kavalactones and Kavains	17.906 %	179.063 mg/g	106.86 mg	3205.94 mg	N/A			N/A
Total Kavalactones	17.602 %	176.018 mg/g	105.05 mg	3151.42 mg	N/A			N/A



SOL

RESIDUAL SOLVENTS - USP <467>

LAB-TM-004 - DETERMINATION OF RESIDUAL SOLVENTS
SOL-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
1,2-Dichloroethane	ND	5 ug/g	0.4 ug/g	1.34 ug/g	PASS
2-Methylbutane	ND	N/A	1.54 ug/g	5.14 ug/g	N/A
2-Methylpentane	ND	N/A	0.046 ug/g	0.154 ug/g	N/A
2,2-Dimethylbutane	ND	N/A	0.98 ug/g	3.27 ug/g	N/A
2,3-Dimethylbutane	ND	N/A	2.19 ug/g	7.32 ug/g	N/A
3-Methylpentane	ND	N/A	0.73 ug/g	2.44 ug/g	N/A
Acetone	ND	5000 ug/g	1.57 ug/g	5.23 ug/g	PASS
Acetonitrile	ND	410 ug/g	1.85 ug/g	6.17 ug/g	PASS
Benzene	ND	2 ug/g	0.18 ug/g	0.59 ug/g	PASS
Butane	ND	N/A	1.68 ug/g	5.59 ug/g	N/A
Chloroform	ND	60 ug/g	0.78 ug/g	2.59 ug/g	PASS
Ethanol	ND	5000 ug/g	6.02 ug/g	20.1 ug/g	PASS
Ethyl Acetate	ND	5000 ug/g	1.95 ug/g	6.49 ug/g	PASS
Ethyl Ether	ND	5000 ug/g	1.37 ug/g	4.55 ug/g	PASS
Ethylene Oxide	ND	N/A	0.15 ug/g	0.49 ug/g	N/A
Heptane	ND	5000 ug/g	1.31 ug/g	4.37 ug/g	PASS
Hexane	ND	290 ug/g	1.42 ug/g	4.74 ug/g	PASS
Isobutane	ND	N/A	1.6 ug/g	5.34 ug/g	N/A
Isopropyl Alcohol	ND	N/A	4.9 ug/g	16.3 ug/g	N/A
Methanol	ND	3000 ug/g	7.89 ug/g	26.4 ug/g	PASS
Methylene Chloride	ND	600 ug/g	1.36 ug/g	4.53 ug/g	PASS
Neopentane	ND	N/A	1.49 ug/g	4.97 ug/g	N/A
Pentane	ND	5000 ug/g	1.46 ug/g	4.87 ug/g	PASS
Propane	ND	N/A	1.95 ug/g	6.51 ug/g	N/A
Toluene	ND	890 ug/g	1.88 ug/g	6.26 ug/g	PASS
Total Xylenes	ND	2170 ug/g	2.02 ug/g	6.72 ug/g	PASS
Trichloroethylene	ND	80 ug/g	0.29 ug/g	0.96 ug/g	PASS
Butanes (Sum of Butane and Isobutane)	ND	N/A			N/A
Hexanes (Sum of Hexane, 2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, and 3-Methylpentane)	ND	290 ug/g			PASS
Pentanes (Sum of Pentane, 2-Methylbutane, and Neopentane)	ND	5000 ug/g			PASS



SAL **SALMONELLA - 25G QPCR**
LAB-TM-063 - DETECTION AND ISOLATION OF SALMONELLA SPP. IN FOODS AND DIETARY SUPPLEMENTS
SAL-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Salmonella Spp	ND	Detection	N/A	N/A	PASS

ECOLI **TOTAL E. COLI & COLIFORMS - PLATE**
LAB-TM-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS
ECOLI-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
E. coli	ND	Detection	10 CFU/g	10 CFU/g	PASS
Total Coliforms	ND	10000 CFU/g	10 CFU/g	10 CFU/g	PASS



PGUSP

PESTICIDES - USP <561> - GC/TQ

LAB-TM-039 - USP 561 PESTICIDES ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY GC/TQ
PGUSP-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Aldrin + Dieldrin	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Bromophos Ethyl	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Bromophos Methyl	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Bromopropylate	ND	3 ug/g	6 ng/g	12 ng/g	PASS
Chlordane (Sum of -Cis, -Trans, Oxychlordane)	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Chlorthal-Dimethyl	ND	0.01 ug/g	0.02 ng/g	0.04 ng/g	PASS
DDT (Sum of O,P-DDE, P,P-DDE, O,P-DDT, P,P-DDT, O,P-TDE, and P,P-TDE)	ND	1 ug/g	2 ng/g	4 ng/g	PASS
Dicofol	ND	0.5 ug/g	1 ng/g	2 ng/g	PASS
Endosulfan (Sum of Isomers and Sulphate)	ND	3 ug/g	6 ng/g	12 ng/g	PASS
Endrin	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Fenchlorophos (Sum of Fenchlorophos and Fenchlorophos-Oxon)	ND	0.1 ug/g	0.2 ng/g	0.4 ng/g	PASS
Fenitrothion	ND	0.5 ug/g	1 ng/g	2 ng/g	PASS
Fenvalerate	ND	1.5 ug/g	3 ng/g	6 ng/g	PASS
Fluvalinate-Tau	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Heptachlor (Sum of Heptachlor, Cis-Heptachlorepoide, and Trans-Heptachlorepoide)	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Hexachlorobenzene	ND	0.1 ug/g	0.2 ng/g	0.4 ng/g	PASS
Hexachlorocyclohexane (Sum of Isomers Alpha-, Beta-, Delta-, and Epsilon-)	ND	0.3 ug/g	0.6 ng/g	1.2 ng/g	PASS
Lindane (Gamma-Hexachlorocyclohexane)	ND	0.6 ug/g	1.2 ng/g	2.4 ng/g	PASS
Methacrifos	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Methoxychlor	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Mirex	ND	0.01 ug/g	0.02 ng/g	0.04 ng/g	PASS
Parathion Ethyl + Paraoxon Ethyl	ND	0.5 ug/g	1 ng/g	2 ng/g	PASS
Pentachloroanisole	ND	0.01 ug/g	0.02 ng/g	0.04 ng/g	PASS
Procymidone	ND	0.1 ug/g	0.2 ng/g	0.4 ng/g	PASS
Quintozene (Sum of Quintozene, Pentachloroaniline, and Methyl-Pentachlorophenyl Sulfide)	ND	1 ug/g	2 ng/g	4 ng/g	PASS



PGUSP

PESTICIDES - USP <561> - GC/TQLAB-TM-039 - USP 561 PESTICIDES ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY GC/TQ
PGUSP-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
S-421	ND	0.02 ug/g	0.04 ng/g	0.08 ng/g	PASS
Tecnazene	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Tetradifon	ND	0.3 ug/g	0.6 ng/g	1.2 ng/g	PASS
Vinclozolin	ND	0.4 ug/g	0.8 ng/g	1.6 ng/g	PASS



PLUSP

PESTICIDES - USP <561> - LC/TQ

LAB-TM-038 - USP 561 PESTICIDE ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC/TQ
PLUSP-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Acephate	ND	0.1 ug/g	12.5 ng/g	25 ng/g	PASS
Alachlor	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Azinphos Ethyl	ND	0.1 ug/g	12.5 ng/g	25 ng/g	PASS
Azinphos Methyl	ND	1 ug/g	12.5 ng/g	25 ng/g	PASS
Chlorfenvinphos	ND	0.5 ug/g	12.5 ng/g	25 ng/g	PASS
Chlorpyrifos Ethyl	ND	0.2 ug/g	12.5 ng/g	25 ng/g	PASS
Cyfluthrin	ND	0.1 ug/g	12.5 ng/g	25 ng/g	PASS
Cypermethrin	ND	1 ug/g	12.5 ng/g	25 ng/g	PASS
Deltamethrin	ND	0.5 ug/g	12.5 ng/g	25 ng/g	PASS
Diazinon	ND	0.5 ug/g	12.5 ng/g	25 ng/g	PASS
Dichlorvos	ND	1 ug/g	12.5 ng/g	25 ng/g	PASS
Dimethoate + Omethoate	ND	0.1 ug/g	12.5 ng/g	25 ng/g	PASS
Ethion	ND	2 ug/g	12.5 ng/g	25 ng/g	PASS
Etrimphos	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Fenpropathrin	ND	0.03 ug/g	12.5 ng/g	25 ng/g	PASS
Fensulfothion (Sum of Fensulfothion, Fensulfothion-Oxon, Fensulfothion-Oxon-Sulfone, and Fensulfothion-Sulfone)	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Fenthion (Sum of Fenthion, Fenthion-Oxon, Fenthion-Oxon-Sulfone, Fenthion-Oxon-Sulfoxide, Fenthion-Sulfone, and Fenthion-Sulfoxide)	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Flucythrinate	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Fonophos	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Lambda-Cyhalothrin	ND	1 ug/g	12.5 ng/g	25 ng/g	PASS
Malathion + Malaaxon	ND	1 ug/g	12.5 ng/g	25 ng/g	PASS
Mecarbam	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Methamidophos	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Methidathion	ND	0.2 ug/g	12.5 ng/g	25 ng/g	PASS
Monocrotophos	ND	0.1 ug/g	12.5 ng/g	25 ng/g	PASS
Pendimethalin	ND	0.1 ug/g	12.5 ng/g	25 ng/g	PASS
Permethrins (Sum of Cis- and Trans-Permethrin)	ND	1 ug/g	12.5 ng/g	25 ng/g	PASS
Phosalone	ND	0.1 ug/g	12.5 ng/g	25 ng/g	PASS
Phosmet	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS



PLUSP

PESTICIDES - USP <561> - LC/TQ

LAB-TM-038 - USP 561 PESTICIDE ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC/TQ
PLUSP-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Piperonyl Butoxide	ND	3 ug/g	12.5 ng/g	25 ng/g	PASS
Pirimiphos Ethyl	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Pirimiphos Methyl (Sum of Pirimiphos-Methyl and n- Desethyl-Pirimiphos-Methyl)	ND	4 ug/g	12.5 ng/g	25 ng/g	PASS
Profenophos	ND	0.1 ug/g	12.5 ng/g	25 ng/g	PASS
Prothiophos	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Pyrethrins (Sum of Cinerin 1, Jasmolin 1, and Pyrethrin 1)	ND	3 ug/g	12.5 ng/g	25 ng/g	PASS
Quinalphos	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS



TAMC

TOTAL AEROBIC BACTERIA - PLATELAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS
TAMC-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	200 CFU/g	1000000 CFU/g	100 CFU/g	100 CFU/g	PASS

SAUR

STAPHYLOCOCCUS AUREUS - PLATELAB-TM-062 - ENUMERATION OF STAPHYLOCOCCUS AUREUS IN FOODS AND DIETARY SUPPLEMENTS
SAUR-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
S. aureus	ND	Detection	10 CFU/g	10 CFU/g	PASS

LMON

LISTERIA MONOCYTOGENES - QPCR - 25 GLAB-TM-064 - DETECTION AND ISOLATION OF L. MONOCYTOGENES IN FOODS AND DIETARY SUPPLEMENTS
LMON-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Listeria monocytogenes	ND	Detection	1 CFU/g	N/A	PASS

DTADT

OPIOID ADULTERANTSLAB-TM-074 - QUALITATIVE DETERMINATION OF PAIN MANAGEMENT ADULTERANTS IN BOTANICAL PRODUCTS
DTADT-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
4-Fluoro-Isobutryl Fentanyl	ND	N/A	N/A	N/A	Detection	1.20 ug/g		PASS
Acetyl Fentanyl	ND	N/A	N/A	N/A	Detection	0.48 ug/g		PASS
Buprenorphine	ND	N/A	N/A	N/A	Detection	4.80 ug/g		PASS
Butyryl Fentanyl	ND	N/A	N/A	N/A	Detection	1.20 ug/g		PASS
Carfentanyl	ND	N/A	N/A	N/A	Detection	1.20 ug/g		PASS
Codeine	ND	N/A	N/A	N/A	Detection	4.80 ug/g		PASS
Cyclopropyl Fentanyl	ND	N/A	N/A	N/A	Detection	0.48 ug/g		PASS
Fentanyl	ND	N/A	N/A	N/A	Detection	0.48 ug/g		PASS
Furanyl Fentanyl	ND	N/A	N/A	N/A	Detection	0.48 ug/g		PASS
Heroin	ND	N/A	N/A	N/A	Detection	4.80 ug/g		PASS
Hydrocodone	ND	N/A	N/A	N/A	Detection	4.80 ug/g		PASS
Hydromorphone	ND	N/A	N/A	N/A	Detection	4.80 ug/g		PASS
Meperidine	ND	N/A	N/A	N/A	Detection	4.80 ug/g		PASS
Methadone	ND	N/A	N/A	N/A	Detection	4.80 ug/g		PASS
Morphine	ND	N/A	N/A	N/A	Detection	4.80 ug/g		PASS
Oxycodone	ND	N/A	N/A	N/A	Detection	4.80 ug/g		PASS
Oxymorphone	ND	N/A	N/A	N/A	Detection	4.80 ug/g		PASS
Tramadol	ND	N/A	N/A	N/A	Detection	4.80 ug/g		PASS



GLUTE

GLUTEN - ELISALAB-TM-075 - QUANTIFICATION OF GLUTEN IN RAW AND PROCESSED FOODS BY ELISA
GLUTE-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Gluten	ND	N/A	0.5 ug/g	5 ug/g	N/A

HVMET

HEAVY METALS - 4LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS
HVMET-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	0.018 ug/g	N/A	0.01 ug	0.33 ug	15 ug/g	0.198 ug/kg	0.662 ug/kg	PASS
Cadmium	0.003 ug/g	N/A	0.00 ug	0.06 ug	4 ug/g	0.082 ug/kg	0.272 ug/kg	PASS
Lead	0.001 ug/g	N/A	0.00 ug	0.02 ug	5 ug/g	0.155 ug/kg	0.515 ug/kg	PASS
Mercury	0.001 ug/g	N/A	0.00 ug	0.02 ug	5 ug/g	0.017 ug/kg	0.057 ug/kg	PASS

TYMFD

TOTAL YEAST & MOLD - PLATELAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS
TYMFD-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	70.0 CFU/g	100000 CFU/g	10 CFU/g	10 CFU/g	PASS

PSEUD

PSEUDOMONAS AERUGINOSA - PLATELAB-TM-088 - DETECTION OF PRESUMPTIVE PSEUDOMONAS AERUGINOSA
PSEUD-DTS-241002-010-01 - WED, OCT 2, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Pseudomonas aeruginosa	ND	Detection	1 CFU/g	1 CFU/g	PASS

