

# CERTIFICATE OF ANALYSIS



**SAMPLE NAME:** 100MG KAVA GUMMY

**SAMPLE CODE:** DTS-240910-030

**CLIENT:** SUNMED

**BATCH RESULT:** PASS

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**MATRIX NAME:** Edible Solid - Gummy  
**SAMPLE TYPE:** Compliance  
**RECEIVED DATE:** Thu, Sep 19, 2024  
**PUBLISHED DATE:** Tue, Sep 24, 2024  
**BATCH/LOT CODE:** 824KAVA  
**BATCH SIZE:** N/A  
**SAMPLE SIZE:** 1U  
**AVERAGE UNIT WEIGHT:** 6.1594g (1 gummy)

<b>KAVAL</b> ✓ Kavalactones & Kavains	<b>SOL</b> ✓ Residual Solvents USP <467>	<b>ECOLI</b> ✓ Total E. Coli & Coliforms Plate	<b>AFLA</b> ✓ Aflatoxins USP <561>	<b>SS</b> ✓ Salmonella & STEC qPCR
<b>AWA</b> ✓ Water Activity	<b>TYMFD</b> ✓ Total Yeast & Mold Plate	<b>HPMET</b> ✓ Heavy Metals 7		

**RESULTS REVIEWED BY:** Leslie Varela  
Laboratory Director  
Cambium Analytica  
Tuesday, Sep 24, 2024

**RESULTS CERTIFIED BY:** Douglas Smith  
VP - Scientific Operations  
Cambium Analytica  
Tuesday, Sep 24, 2024

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KAVAL

**KAVALACTONES & KAVAINS**LAB-TM-067 - DETERMINATION OF KAVALACTONES & KAVAINS BY LC-DAD  
KAVAL-DTS-240910-030-01 - WED, SEP 25, 2024

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Kavain	0.532 %	5.321 mg/g	32.78 mg	32.78 mg	N/A	0.25 ug/g	1 ug/g	N/A
Dihydrokavain	0.466 %	4.662 mg/g	28.71 mg	28.71 mg	N/A	0.25 ug/g	1 ug/g	N/A
Dihydromethysticin	0.175 %	1.748 mg/g	10.77 mg	10.77 mg	N/A	0.25 ug/g	1 ug/g	N/A
Methysticin	0.142 %	1.418 mg/g	8.73 mg	8.73 mg	N/A	0.25 ug/g	1 ug/g	N/A
Desmethoxyyangonin	0.095 %	0.946 mg/g	5.83 mg	5.83 mg	N/A	0.25 ug/g	1 ug/g	N/A
Flavokavain B	0.032 %	0.319 mg/g	1.96 mg	1.96 mg	N/A	0.025 ug/g	0.1 ug/g	N/A
Yangonin	0.032 %	0.315 mg/g	1.94 mg	1.94 mg	N/A	0.25 ug/g	1 ug/g	N/A
Flavokavain A	0.021 %	0.211 mg/g	1.30 mg	1.30 mg	N/A	0.025 ug/g	0.1 ug/g	N/A
Total Kavalactones and Kavains	1.494 %	14.940 mg/g	92.02 mg	92.02 mg	N/A			N/A
Total Kavalactones	1.441 %	14.410 mg/g	88.76 mg	88.76 mg	N/A			N/A



SOL

## RESIDUAL SOLVENTS - USP &lt;467&gt;

LAB-TM-004 - DETERMINATION OF RESIDUAL SOLVENTS  
SOL-DTS-240910-030-01 - TUE, SEP 10, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
1,2-Dichloroethane	ND	2 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	750 ug/g	1.57 ug/g	5.23 ug/g	PASS
Acetonitrile	ND	60 ug/g	1.85 ug/g	6.17 ug/g	PASS
Benzene	ND	1 ug/g	0.18 ug/g	0.59 ug/g	PASS
Butane	ND	5000 ug/g	1.68 ug/g	5.59 ug/g	PASS
Chloroform	ND	2 ug/g	0.78 ug/g	2.59 ug/g	PASS
Ethanol	3939.891 ug/g	5000 ug/g	6.02 ug/g	20.1 ug/g	PASS
Ethyl Acetate	ND	400 ug/g	1.95 ug/g	6.49 ug/g	PASS
Ethyl Ether	ND	500 ug/g	1.37 ug/g	4.55 ug/g	PASS
Ethylene Oxide	ND	5 ug/g	0.15 ug/g	0.49 ug/g	PASS
Heptane	ND	5000 ug/g	1.31 ug/g	4.37 ug/g	PASS
Hexane	ND	N/A	1.42 ug/g	4.74 ug/g	N/A
Isobutane	ND	N/A	1.6 ug/g	5.34 ug/g	N/A
Isopropyl Alcohol	ND	500 ug/g	4.9 ug/g	16.3 ug/g	PASS
Methanol	29.736 ug/g	250 ug/g	7.89 ug/g	26.4 ug/g	PASS
Methylene Chloride	ND	125 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	750 ug/g	1.46 ug/g	4.87 ug/g	PASS
Propane	ND	5000 ug/g	1.95 ug/g	6.51 ug/g	PASS
Toluene	ND	150 ug/g	1.88 ug/g	6.26 ug/g	PASS
Total Xylenes	ND	150 ug/g	2.02 ug/g	6.72 ug/g	PASS
Trichloroethylene	ND	25 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	250 ug/g			PASS
Pentanes (Sum of Pentane, 2-Methylbutane, and Neopentane)	ND	N/A			N/A



**ECOLI** **TOTAL E. COLI & COLIFORMS - PLATE**  
 LAB-TM-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS  
 ECOLI-DTS-240910-030-01 - TUE, SEP 10, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
E. coli	ND	N/A	10 CFU/g	10 CFU/g	N/A
Total Coliforms	ND	N/A	10 CFU/g	10 CFU/g	N/A

**AFLA** **AFLATOXINS - USP <561>**  
 LAB-TM-043 - USP 561 AFLATOXINS ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC-TQ  
 AFLA-DTS-240910-030-01 - TUE, SEP 10, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Aflatoxin G1	ND	20 ug/kg	0.001 ug/g	0.002 ug/g	PASS
Aflatoxin G2	ND	20 ug/kg	0.001 ug/g	0.002 ug/g	PASS
Aflatoxin B1	ND	20 ug/kg	0.001 ug/g	0.002 ug/g	PASS
Aflatoxin B2	ND	20 ug/kg	0.001 ug/g	0.002 ug/g	PASS
Ochratoxin A	ND	20 ug/kg	0.001 ug/g	0.002 ug/g	PASS
Aflatoxins (Sum of B1, B2, G1, and G2)	ND	N/A			N/A

**SS** **SALMONELLA & STEC- QPCR**  
 LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR  
 SS-DTS-240910-030-01 - TUE, SEP 10, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Salmonella Spp	ND	1 CFU/g	N/A	N/A	PASS
Shiga Toxin Producing E. coli	ND	1 CFU/g	N/A	N/A	PASS

**AWA** **WATER ACTIVITY**  
 LAB-TM-009 - DETERMINATION OF WATER ACTIVITY  
 AWA-DTS-240910-030-01 - TUE, SEP 10, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Water Activity	0.729 aw	N/A	N/A	N/A	N/A

**TYMFD** **TOTAL YEAST & MOLD - PLATE**  
 LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS  
 TYMFD-DTS-240910-030-01 - TUE, SEP 10, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	ND	N/A	10 CFU/g	10 CFU/g	N/A



HPMET

**HEAVY METALS - 7**LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS  
HPMET-DTS-240910-030-01 - TUE, SEP 10, 2024

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	ND	N/A	N/A	N/A	N/A	0.198 ug/kg	0.662 ug/kg	N/A
Cadmium	ND	N/A	N/A	N/A	N/A	0.082 ug/kg	0.272 ug/kg	N/A
Chromium	0.125 ug/g	N/A	0.77 ug	0.77 ug	N/A	0.627 ug/kg	2.091 ug/kg	N/A
Copper	0.049 ug/g	N/A	0.30 ug	0.30 ug	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Lead	0.006 ug/g	N/A	0.04 ug	0.04 ug	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Mercury	0.001 ug/g	N/A	0.01 ug	0.01 ug	N/A	0.017 ug/kg	0.057 ug/kg	N/A
Nickel	0.188 ug/g	N/A	1.16 ug	1.16 ug	N/A	0.321 ug/kg	1.071 ug/kg	N/A

