

MM-Mambas-Very_Berry-10_pack

Overall Batch Result **PASS**



Total THC

9.860 mg
per serving

98.603 mg
per package

Total CBD

0.032 mg
per serving

0.316 mg
per package

Total Cannabinoids

10.647 mg
per serving

106.475 mg
per package

Batch

Lot / Batch: **MM-Mambas-VB-120622**
Source UID: **1A406030002A29F000000859**
Package UID: **1A4060300007083000051575**

Distributor

Green Spectrum Trading
14835 Bessemer St
Van Nuys CA 91411
CTI-0000760-LIC

Producer

Green Acre Management (Muha Meds)
515 W 17th St
Long Beach CA 90813
CDPH-10004540

Sample

Account: **Green Spectrum Trading**
Sample ID: **1923955**
Sample Matrix: **Gummy**
Batch Size: **1080 units**
Sample Size: **8 units**
Package Size: **50 g**
Serving Size: **5 g**
Collected Date: **12/08/22**
Received Date: **12/09/22**
Completed Date: **12/16/22**

Cannabinoids

TESTED

Residual Solvents

PASS

Heavy Metals

PASS

Microbials

PASS

Mycotoxins

PASS

Chemical Residues

PASS

Foreign Materials

PASS

Water Activity

PASS

Quality Review

Dr. Jerry White PhD

Jerry White, PhD
Chief Scientific Officer
12/16/22

Data Review

Bryan Zahakaylo

Bryan Zahakaylo
Analyst
12/16/22



Cannabinoids Analysis TESTED

Analytical Technique: **HPLC UV VIS**
 Instrumentation: **2030C**
 Method: **SOP-001**
 Analysis Performed: **12/12/22**
 Panel Completed: **12/13/22**

THC per serving: **9.844 mg**
 THC per package: **98.439 mg**
 Total THC: **0.1972%, 1.972 mg/g**

CBD per serving: **0.032 mg**
 CBD per package: **0.316 mg**
 Total CBD: **0.0006%, 0.006 mg/g**

Sum Cannabinoids: **0.2130%, 2.130 mg/g**
 Total Cannabinoids: **0.2129%, 2.129 mg/g**

Analyte	LOD (mg/g)	LOQ (mg/g)	Results (mg/g)	Results (%)
Cannabidiarin (CBDV)	0.0000	0.0000	0.004	0.0004
Cannabidiolic Acid (CBDA)	0.0000	0.0000	<1	<0.100
Cannabigerolic Acid (CBGA)	0.0000	0.0000	0.004	0.0004
Cannabigerol (CBG)	0.0000	0.0000	0.080	0.0080
Cannabidiol (CBD)	0.0000	0.0000	0.006	0.0006
Tetrahydrocannabivarin (THCV)	0.0000	0.0000	0.011	0.0011
Cannabinol (CBN)	0.0000	0.0000	0.018	0.0018
Δ 9-Tetrahydrocannabinol (Δ 9-THC)	0.0000	0.0000	1.969	0.1969
Δ 8-Tetrahydrocannabinol (Δ 8-THC)	0.0000	0.0000	0.015	0.0015
Cannabichromene (CBC)	0.0000	0.0000	0.019	0.0019
Δ 9-Tetrahydrocannabinolic Acid (Δ 9-THCA)	0.0000	0.0000	0.004	0.0004

Sum Cannabinoids = Acidic Cannabinoids + Neutral Cannabinoids

Total Cannabinoids = (Acidic Cannabinoids x 0.877) + Neutral Cannabinoids

Total THC = (THCA x 0.877) + Δ 9-THC

Total CBD = (CBDA x 0.877) + CBD

Residual Solvents Analysis PASS

Analytical Technique: **GC-MS**
 Instrumentation: **2020**
 Method: **SOP-004**
 Analysis Performed: **12/13/22**
 Panel Completed: **12/13/22**

Analyte	LOD (μ g/g)	LOQ (μ g/g)	Action Limit (μ g/g)	Results (μ g/g)	Results
1,2-Dichloroethane	0.1547	0.4688	1.00	ND	PASS
Acetone	15.4688	46.875	5000.00	ND	PASS
Acetonitrile	15.4688	46.875	410.00	ND	PASS
Benzene	0.1547	0.4688	1.00	ND	PASS
Butane	15.4688	46.875	5000.00	ND	PASS
Chloroform	0.1547	0.4688	1.00	ND	PASS
Ethanol	15.4688	46.875	5000.00	ND	PASS
Ethyl acetate	15.4688	46.875	5000.00	ND	PASS
Ethyl ether	15.4688	46.875	5000.00	ND	PASS
Ethylene oxide	0.1547	0.4688	1.00	ND	PASS
Heptane	15.4688	46.875	5000.00	ND	PASS
Hexane	15.4688	46.875	290.00	ND	PASS
Isopropyl alcohol	15.4688	46.875	5000.00	ND	PASS
Methanol	15.4688	46.875	3000.00	ND	PASS
Methylene chloride	0.1547	0.4688	1.00	ND	PASS
Pentane	15.4688	46.875	5000.00	ND	PASS
Propane	15.4688	46.875	5000.00	ND	PASS
Toluene	15.4688	46.875	890.00	ND	PASS
Trichloroethylene	0.1547	0.4688	1.00	ND	PASS
Total xylenes	-	-	2170.00	ND	PASS
(meta, para-xylene)	46.4063	140.625	-	ND	
(ortho-xylene)	46.4063	140.625	-	ND	

Heavy Metals Analysis PASS

Analytical Technique: **ICP-MS**
 Instrumentation: **NexION**
 Method: **SOP-005**
 Analysis Performed: **12/13/22**
 Panel Completed: **12/13/22**

Analyte	LOD (μ g/g)	LOQ (μ g/g)	Action Limit (μ g/g)	Results (μ g/g)	Results
Arsenic 75	0.0165	0.0500	0.200	ND	PASS
Cadmium 111	0.0165	0.0500	0.200	ND	PASS
Lead 208	0.0413	0.1250	0.500	ND	PASS
Mercury 202	0.0033	0.0100	0.100	ND	PASS

Microbials Analysis PASS

Analytical Technique: **Colorimetric Microarray**
 Instrumentation: **SensoSpot**
 Method: **SOP-006**
 Analysis Performed: **12/12/22**
 Panel Completed: **12/12/22**

Analyte	Action Limit	Results	Results
Aspergillus flavus	Detected in 1 gram	ND	PASS
Aspergillus fumigatus	Detected in 1 gram	ND	PASS
Aspergillus niger	Detected in 1 gram	ND	PASS
Aspergillus terreus	Detected in 1 gram	ND	PASS
Salmonella spp.	Detected in 1 gram	ND	PASS
Escherichia coli (STEC)	Detected in 1 gram	ND	PASS

Mycotoxins Analysis PASS

Analytical Technique: **HPLC-MS/MS**
 Instrumentation: **5500**
 Method: **SOP-003**
 Analysis Performed: **12/09/22**
 Panel Completed: **12/12/22**

Analyte	LOD (μ g/kg)	LOQ (μ g/kg)	Action Limit (μ g/kg)	Results (μ g/kg)	Results
Ochratoxin A	6.6000	20.0000	20	ND	PASS
Total Aflatoxins	-	-	20	ND	PASS
(Aflatoxin B1)	1.7000	5.0000	-	ND	
(Aflatoxin B2)	1.7000	5.0000	-	ND	
(Aflatoxin G1)	1.7000	5.0000	-	ND	
(Aflatoxin G2)	1.7000	5.0000	-	ND	



Chemical Residues Analysis
PASS

Analytical Technique: **HPLC-MS/MS**
 Instrumentation: **5500**
 Method: **SOP-003**
 Analysis Performed: **12/09/22**
 Panel Completed: **12/12/22**

Analyte	LOD (µg/g)	LOQ(µg/g)	Action Limit (µg/g)	Results (µg/g)	
Abamectin	0.0333	0.1000	0.30	ND	PASS
Acephate	0.0333	0.1000	5.00	ND	PASS
Acequinocyl	0.0333	0.1000	4.00	ND	PASS
Acetamiprid	0.0333	0.1000	5.00	ND	PASS
Aldicarb	0.0333	0.1000	>LOD	ND	PASS
Azoxystrobin	0.0333	0.1000	40.00	ND	PASS
Bifenazate	0.0333	0.1000	5.00	ND	PASS
Bifenthrin	0.0333	0.1000	0.50	ND	PASS
Boscalid	0.0333	0.1000	10.00	ND	PASS
Carbaryl	0.0333	0.1000	0.50	ND	PASS
Carbofuran	0.0333	0.1000	>LOD	ND	PASS
Chlorantraniliprole	0.0333	0.1000	40.00	ND	PASS
Chlorpyrifos	0.0333	0.1000	>LOD	ND	PASS
Clofentezine	0.0333	0.1000	0.50	ND	PASS
Coumaphos	0.0333	0.1000	>LOD	ND	PASS
Daminozide	0.0333	0.1000	>LOD	ND	PASS
Diazinon	0.1000	0.1000	0.20	ND	PASS
Dichlorvos	0.0333	0.1000	>LOD	ND	PASS
Dimethoate	0.0333	0.1000	>LOD	ND	PASS
Dimethomorph	0.0333	0.1000	20.00	ND	PASS
Ethoprophos	0.0333	0.1000	>LOD	ND	PASS
Etofenprox	0.0333	0.1000	>LOD	ND	PASS
Etoxazole	0.0333	0.1000	1.50	ND	PASS
Fenhexamid	0.0333	0.1000	10.00	ND	PASS
Fenoxycarb	0.0333	0.1000	>LOD	ND	PASS
Fenpyroximate	0.0333	0.1000	2.00	ND	PASS
Fipronil	0.0333	0.1000	>LOD	ND	PASS
Flonicamid	0.0333	0.1000	2.00	ND	PASS
Fludioxonil	0.0333	0.1000	30.00	ND	PASS
Hexythiazox	0.0333	0.1000	2.00	ND	PASS
Imazalil	0.0333	0.1000	>LOD	ND	PASS
Imidacloprid	0.0333	0.1000	3.00	ND	PASS
Kresoxim-Methyl	0.0333	0.1000	1.00	ND	PASS
Malathion	0.0333	0.1000	5.00	ND	PASS
Metalaxyl	0.0333	0.1000	15.00	ND	PASS
Methiocarb	0.0333	0.1000	>LOD	ND	PASS
Methomyl	0.0333	0.1000	0.10	ND	PASS
Mevinphos	0.0333	0.1000	>LOD	ND	PASS
Myclobutanil	0.0333	0.1000	9.00	ND	PASS
Naled	0.0333	0.1000	0.50	ND	PASS
Oxamyl	0.0333	0.1000	0.20	ND	PASS
Paclobutrazol	0.0333	0.1000	0.00	ND	PASS
Permethrin	0.0333	0.1000	20.00	ND	PASS
Phosmet	0.0333	0.1000	0.20	ND	PASS
Piperonyl Butoxide	0.0333	0.1000	8.00	ND	PASS
Prallethrin	0.0333	0.1000	0.40	ND	PASS
Propiconazole	0.0333	0.1000	20.00	ND	PASS
Propoxur	0.0333	0.1000	0.00	ND	PASS
Pyrethrins	0.0333	0.1000	1.00	ND	PASS
Pyridaben	0.0333	0.1000	3.00	ND	PASS
Spinetoram	0.0333	0.1000	3.00	ND	PASS
Spinosad	0.0333	0.1000	3.00	ND	PASS
Spiromesifen	0.0333	0.1000	12.00	ND	PASS
Spirotetramat	0.0333	0.1000	13.00	ND	PASS
Spiroxamine	0.0333	0.1000	0.00	ND	PASS
Tebuconazole	0.0333	0.1000	2.00	ND	PASS
Thiacloprid	0.0333	0.1000	0.00	ND	PASS
Thiamethoxam	0.0333	0.1000	4.50	ND	PASS
Trifloxystrobin	0.0333	0.1000	30.00	ND	PASS
Captan	0.2310	0.7000	5.00	ND	PASS
Chlordane	0.0116	0.0350	>LOD	ND	PASS
Chlorfenapyr	0.0058	0.0175	>LOD	ND	PASS
Cyfluthrin	0.0231	0.0700	1.00	ND	PASS
Cypermethrin	0.0231	0.0700	1.00	ND	PASS
Methyl Parathion	0.0058	0.0175	>LOD	ND	PASS
Pentachloronitrobenzene	0.0231	0.0700	0.20	ND	PASS

Analytical Technique: **GC-MS/MS**
 Instrumentation: **8050**
 Method: **SOP-003**
 Analysis Performed: **12/09/22**
 Panel Completed: **12/12/22**



Foreign Material Analysis PASS

Analytical Technique: **Digital Microscopy**
 Instrumentation: **HM16**
 Method: **SOP-010**
 Analysis Performed: **12/09/22**
 Panel Completed: **12/09/22**

Analyte	Action Limit	Results	
Sand, Soil, Cinders, or Dirt	> 1/4 total sample area	ND	PASS
Mold	> 1/4 total sample area	ND	PASS
Insect Fragments, Hairs, or Mammalian Excreta	> 1 count per 3.0 grams	ND	PASS
Imbedded Foreign Material	> 1/4 total sample area	ND	PASS

Water Activity Analysis PASS

Analytical Technique: **Vapor Pressure Ratio**
 Instrumentation: **HC2**
 Method: **SOP-007**
 Analysis Performed: **12/09/22**
 Panel Completed: **12/09/22**

Analyte	Detection Range (a _w)	Action Limit (a _w)	Results (a _w)	
Water Activity	0.25 - 1.0	0.85	0.4440	PASS

