



Delta 8 Distillate
Sample Matrix:
CBD/HEMP
Derivative Products
(Inhalation - Heated)



DEA No. RA0571996
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

HERBAL PHARM RX
5740 LOGAN ST
DENVER, CO 80216

Batch # BIN/D8/DIS-071822
Batch Date: 2022-07-18
Extracted From: Hemp

Sampling Method: MSP 7.3.1
Test Reg State: Colorado

Order # HER220718-010001
Order Date: 2022-07-18
Sample # AADD062

Sampling Date: 2022-07-22
Lab Batch Date: 2022-07-22
Completion Date: 2022-08-04

Initial Gross Weight: 67.010 g



Product Image

Potency Tested	Heavy Metals Passed	2-3-Butanedione Passed	Mycotoxins Passed	Pesticides Passed
Residual Solvents Passed	Listeria Monocytogenes Passed	Pathogenic Passed	Vitamin E Tested	

Delta 8/Delta 10 Potency 12

Tested
SOP13.043 (LCUV)

Specimen Weight: 59.300 mg

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC	2.60E-5	0.001	904.300	90.430
Delta-9 THC	1.30E-5	0.1	20.540	2.054
CBC	1.80E-5	0.001	<LOQ	<LOQ
CBD	5.40E-5	0.001	<LOQ	<LOQ
THCA	3.20E-5	0.001	<LOQ	<LOQ
Delta-10 THC	3.00E-6	0.001	<LOQ	<LOQ
CBN	1.40E-5	0.001	<LOQ	<LOQ
CBGA	8.00E-5	0.001	<LOQ	<LOQ
CBG	2.48E-4	0.001	<LOQ	<LOQ
CBDV	6.50E-5	0.001	<LOQ	<LOQ
CBDA	1.00E-5	0.001	<LOQ	<LOQ
THCV	7.00E-6	0.001	<LOQ	<LOQ

Potency Summary

Total Delta 8 90.430%	-	Total Delta 10 None Detected
Total THC 2.054%	-	Total CBD None Detected
Total CBG None Detected	-	Total CBN None Detected
Other Cannabinoids None Detected	-	Total Cannabinoids 92.484%

Heavy Metals - CO

Passed
SOP13.048 (ICP-MS)

Dilution Factor: 198.240

Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)
Arsenic (As)	4.83	100	1500	<LOQ	Lead (Pb)	0.58	100	500	<LOQ
Cadmium (Cd)	0.64	100	500	<LOQ	Mercury (Hg)	11.76	100	1500	<LOQ

Pathogenic SAE (qPCR) - CO

Passed
SOP13.010 (qPCR)

Specimen Weight: 25.035 g

Dilution Factor: 1.000

Analyte	Action Limit (cfu/g)	Result (cfu/g)	Analyte	Action Limit (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Absence in 1g	STEC	25	Absence in 25g
Salmonella	25	Absence in 25g			

Xueli Gao
Xueli Gao
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Lab Toxicologist

Aixia Sun
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D.H.Sc., M.Sc., B.Sc., MT (AAB)
Lab Director/Principal Scientist



Definitions and Abbreviations used in this report: Total CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.877) + CBG, CBN Total = (CBNA * 0.877) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta6a10a-THC + Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate, Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, , LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, *Measurement of Uncertainty = +/- 10%

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Sample # AADD062

Sampling Date: 2022-07-22
Lab Batch Date: 2022-07-22
Completion Date: 2022-08-04

Initial Gross Weight: 67.010 g

Pesticides - CO

Specimen Weight: 257.000 mg

Passed
SOP13.007
(LCMS/GCMS)

Listeria Monocytogenes

Specimen Weight: 1000.310 mg

Passed
SOP13.010
(qPCR)

Dilution Factor: 5.840

Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result
Abamectin	3.1800E-4	250	250	<LOQ
Acephate	3.9632E-2	50	50	<LOQ
Acequinocyl	5.7646E-2	30	*	<LOQ
Acetamiprid	3.3800E-10	50	50	<LOQ
Aldicarb	2.2744E-2	500	500	<LOQ
Allethrin	4.7244E-1	100	100	<LOQ
Atrazine	3.7992E-1	25	*	<LOQ
Azadirachtin	3.0710E-3	500	500	<LOQ
Azoxystrobin	1.3247E-2	10	10	<LOQ
Benzovindiflupyr	1.2567E-2	10	10	<LOQ
Bifenazate	2.1700E-8	10	10	<LOQ
Bifenthrin	8.4200E-4	1000	*	<LOQ
Boscalid	4.3300E-6	10	10	<LOQ
Buprofezin	1.6600E-9	20	*	<LOQ
Carbaryl	1.3800E-5	25	25	<LOQ
Carbofuran	7.7600E-5	10	10	<LOQ
Chlorantraniliprole	1.3559E-1	20	*	<LOQ
Chlorfenapyr	1.5370E+1	1500	1500	<LOQ
Chlorpyrifos	9.0900E-5	500	500	<LOQ
Clofentezine	3.7100E-7	10	10	<LOQ
Clothianidin	3.9900E-4	25	25	<LOQ
Coumaphos	9.8600E-5	10	10	<LOQ
Cyantraniliprole	6.0040E-3	10	10	<LOQ
Cyfluthrin	2.8130E+1	200	*	<LOQ
Cypermethrin	1.1900E-6	300	*	<LOQ
Cyprodinil	1.1410E-3	10	10	<LOQ
Daminozide	3.0408E-1	100	*	<LOQ
Deltamethrin	4.9284E-1	500	*	<LOQ
Diazinon	3.9100E-10	20	*	<LOQ
Dichlorvos	1.1406E+0	50	50	<LOQ
Dimethoate	2.8400E-6	10	10	<LOQ
Dimethomorph	1.5700E-4	50	*	<LOQ
Dinotefuran	2.3697E-1	50	50	<LOQ
Diuron	6.8620E-3	125	*	<LOQ
Disulfoton	4.0200E+0	150	150	<LOQ
Disulfoton sulfate	8.8376E-1	2500	2500	<LOQ
Endosulfan-alpha	1.2220E+1	2500	2500	<LOQ
Endosulfan-beta	2.2760E+1	2500	2500	<LOQ
Ethionprox	8.3050E-3	50	*	<LOQ
Ethionprophos	1.5900E-5	10	10	<LOQ
Etofenprox	8.3050E-3	50	*	<LOQ
Etofenprox sulfate	8.3558E-1	20	*	<LOQ
Etidiazole	4.0200E+0	150	150	<LOQ
Fenhexamid	1.0947E+0	125	*	<LOQ
Fenoxycarb	3.4507E-1	10	10	<LOQ
Fenprophate	4.4800E-7	20	*	<LOQ
Fenprothion	7.9400E-4	10	10	<LOQ
Fenvalerate	5.9775E-1	100	*	<LOQ
Fipronil	2.8847E-2	10	10	<LOQ
Fipronil methyl ester	6.9733E-2	25	25	<LOQ
Fipronil methyl ester chrysanthemate	1.3402E-2	10	10	<LOQ
Fludioxonil	1.3402E-2	10	10	<LOQ
Fluopyram	1.1200E-9	10	10	<LOQ
Flurothiazox	6.1900E-5	10	*	<LOQ
Imazalil	2.9500E-4	10	10	<LOQ
Imidacloprid	1.5300E-4	10	10	<LOQ
Iprodione	1.0554E-1	500	500	<LOQ
Kinoprene	3.4000E+0	500	1250	<LOQ
Kresoxim-methyl	1.4500E-4	150	150	<LOQ
Lambda-cyhalothrin	1.1686E-1	250	*	<LOQ
Malathion	1.3300E-4	10	10	<LOQ
Methoxyacetylcholinesterase inhibitor	4.8600E-5	10	10	<LOQ
Methoxydemeton-methyl	2.2810E-3	10	10	<LOQ
Methomyl	1.1500E-6	25	25	<LOQ
Methoprene	1.1485E+0	2000	*	<LOQ
Methylparathion	4.2400E+0	50	*	<LOQ
Mevinphos	4.4200E-5	25	25	<LOQ
MGK-264	2.5880E-3	50	*	<LOQ
Myclobutanil	7.0006E-1	10	10	<LOQ

Dilution Factor: 1.000

Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (cfu/g)	Result
Listeria monocytogenes	100	100	1	Absence in 1g
Vitamin E (Tocopheryl Acetate)	5.8500E-6	25	<LOQ	
2,3-butanedione (Diacetyl)	2.0500E-4	500	<LOQ	

Dilution Factor: 5.840

Analyte	LOD (ppm)	LOQ (ppm)	Result
2,3-Butanedione	0.024	0.024	<LOQ
Acetaminophen	6.8013E-2	50	<LOQ
Acetone	2.3645E-2	10	<LOQ
Acetylcholinesterase inhibitor	5.9903E-1	10	<LOQ
Acetylcholinesterase inhibitor	3.7377E+6	250	<LOQ
Acetylcholinesterase inhibitor	3.2183E-1	3000	<LOQ
Acetylcholinesterase inhibitor	4.2760E-2	10	<LOQ
Acetylcholinesterase inhibitor	1.2172E+0	100	<LOQ
Acetylcholinesterase inhibitor	1.4800E-14	10	<LOQ
Acetylcholinesterase inhibitor	1.8121E-2	10	<LOQ
Acetylcholinesterase inhibitor	1.6620E-2	25	<LOQ
Acetylcholinesterase inhibitor	8.3913E-1	10	<LOQ
Acetylcholinesterase inhibitor	9.9200E-5	100	<LOQ
Acetylcholinesterase inhibitor	1.2510E-3	20	<LOQ
Acetylcholinesterase inhibitor	1.1200E-5	10	<LOQ
Acetylcholinesterase inhibitor	2.2500E-6	10	<LOQ
Acetylcholinesterase inhibitor	2.2300E-4	50	<LOQ
Acetylcholinesterase inhibitor	2.1700E-13	10	<LOQ

Xueli Gao Lab Toxicologist
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Completion Date: 2022-08-04

Initial Gross Weight: 67.010 g

Residual Solvents - CO

Passed

Specimen Weight: 303.900 mg

SOP13.039 (GCMS)

Dilution Factor: 500.000

Analyte	LOD (ppm)	LOQ (ppm)	Action Limit (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Limit (ppm)	Result (ppm)
Acetone	0.015	2.08	1000	<LOQ	Isopropyl alcohol	0.0048	1.39	1000	<LOQ
Benzene	0.0002	0.02	2	<LOQ	Methanol	0.0005	0.69	600	<LOQ
Butanes	0.4167	2.5	1000	<LOQ	Pentane	0.037	2.08	1000	<LOQ
Ethanol	0.0021	2.78	1000	<LOQ	Propane	0.031	5.83	1000	<LOQ
Ethyl Acetate	0.0012	1.11	1000	<LOQ	Toluene	0.0009	2.92	180	<LOQ
Heptane	0.0013	1.39	1000	<LOQ	Total Xylenes	0.0001	2.92	430	<LOQ
Hexane	0.068	1.17	60	<LOQ					

Mycotoxins - CO

Passed

Specimen Weight: 257.000 mg

SOP13.007 (LCMS)

Dilution Factor: 5.840

Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)
Aflatoxin B1	3.7250E-1	2.5	5	<LOQ	Ochratoxin A	1.8997E-1	3.5	5	<LOQ
Aflatoxin Total		2.5	20	<LOQ					

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