



License No. 800025015
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

Kanabo Group PLC
63-66 Hatton Garden
London, UK EC1N 8LE

Batch # LC781
Batch Date: 2021-11-09
Extracted From: Industrial Hemp

Sampling Method: MSP 7.3.1
Test Reg State: Oregon

Production Facility: Pure Origins
Production Date: 2021-11-09

Order # KAN211111-030001
Order Date: 2021-11-11
Sample # AACD895

Sampling Date: 2021-11-23
Lab Batch Date: 2021-11-23
Completion Date: 2021-12-01

Initial Gross Weight: 31.103 g



Product Image

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

Potency - 11

Specimen Weight: 55.310 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	10.000	0.000054	0.001	417.300	41.730
CBDA	10.000	0.00001	0.001	355.100	35.510
CBG	10.000	0.000248	0.001	4.936	0.494
CBGA	10.000	0.00008	0.001	2.361	0.236
THCV	10.000	0.000007	0.001	1.633	0.163
CBDV	10.000	0.000065	0.001	0.802	0.080
Delta-9 THC	10.000	0.000013	0.001	0.520	0.052
THCA-A	10.000	0.000032	0.001	0.433	0.043
Delta-8 THC	10.000	0.000026	0.001	<LOQ	
CBN	10.000	0.000014	0.001	<LOQ	
CBC	10.000	0.000018	0.001	<LOQ	

Tested (HPLC/LCMS)

Potency Summary

Total THC 0.090%	Total CBD 72.872%
Total CBG 0.701%	Total CBN None Detected
Other Cannabinoids 0.244%	Total Cannabinoids 73.906%

Terpenes Summary

Analyte	Result (mg/g)	(%)
alpha-Bisabolol	112.671	11.267%
trans-Caryophyllene	8.047	0.805%
Farnesene	7.092	0.709%
alpha-Humulene	2.863	0.286%
(R)-(+)-Limonene	2.286	0.229%
beta-Myrcene	1.128	0.113%
Linalool	1.044	0.104%
alpha-Pinene	0.972	0.097%
Guaiol	0.956	0.096%
Ocimene	0.715	0.072%

Total Terpenes: 13.778%

Detailed Terpenes Analysis is on the following page

Xueli Gao
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Ph.D., DABT
Lab Toxicologist

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



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Sample # AACD895

Sampling Date: 2021-11-23
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Completion Date: 2021-12-01

Initial Gross Weight: 31.103 g



Terpenes

Specimen Weight: 58.660 mg

Tested
(GC/GCMS)

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
alpha-Bisabolol	0.02	112.671	11.267	trans-Caryophyllene	0.02	8.047	0.805
Farnesene	0.02	7.092	0.709	alpha-Humulene	0.02	2.863	0.286
(R)-(+)-Limonene	0.02	2.286	0.229	beta-Myrcene	0.02	1.128	0.113
Linalool	0.02	1.044	0.104	alpha-Pinene	0.02	0.972	0.097
Guaial	0.02	0.956	0.096	Ocimene	0.014	0.715	0.072
Hexahydrothymol	0.02	<LOQ		Isoborneol	0.02	<LOQ	
Isopulegol	0.02	<LOQ		Nerol	0.02	<LOQ	
(+)-Cedrol	0.02	<LOQ		Pulegone	0.02	<LOQ	
Sabinene	0.02	<LOQ		Geraniol	0.02	<LOQ	
Sabinene Hydrate	0.02	<LOQ		Terpinolene	0.02	<LOQ	
Total Terpeneol	0.02	<LOQ		trans-Nerolidol	0.02	<LOQ	
Geranyl acetate	0.02	<LOQ		Fenchone	0.02	<LOQ	
beta-Pinene	0.02	<LOQ		3-Carene	0.02	<LOQ	
alpha-Cedrene	0.02	<LOQ		alpha-Phellandrene	0.02	<LOQ	
alpha-Terpinene	0.02	<LOQ		Gamma-Terpinene	0.02	<LOQ	
Borneol	0.04	<LOQ		Camphene	0.02	<LOQ	
Camphors	0.04	<LOQ		Caryophyllene oxide	0.02	<LOQ	
cis-Nerolidol	0.02	<LOQ		Eucalyptol	0.02	<LOQ	
Fenchyl Alcohol	0.02	<LOQ		Valencene	0.02	<LOQ	

Total Terpenes: 13.778%

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Xueli Gao Lab Toxicologist
Ph.D., DABT

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Aixia Sun Lab Director/Principal Scientist
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H Heavy Metals Passed (ICP-MS)

Specimen Weight: 253.700 mg

Dilution Factor: 2.000

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	100	1500	<LOQ	Cadmium (Cd)	100	500	<LOQ
Lead (Pb)	100	500	<LOQ	Mercury (Hg)	100	3000	<LOQ

2,3-butanedione(Diacetyl) Passed (GCMS)

Specimen Weight: 11.600 mg

Dilution Factor: 1.000

Analyte	LOQ (ppm)	Result (ppm)
2,3-Butanedione	0.024	<LOQ

Mycotoxins Passed (LCMS)

Specimen Weight: 168.000 mg

Dilution Factor: 8.929

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	6	20	<LOQ	Aflatoxin B2	6	20	<LOQ
Aflatoxin G1	6	20	<LOQ	Aflatoxin G2	6	20	<LOQ
Ochratoxin A	12	20	<LOQ				

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Xueli Gao Lab Toxicologist
Ph.D., DABT

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Pesticides

Specimen Weight: 168.000 mg

Passed
(LCMS/GCMS)

Dilution Factor: 1.531

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	28.23	300	<LOQ	Acephate	30	3000	<LOQ
Acequinocyl	48	2000	<LOQ	Acetamiprid	30	3000	<LOQ
Aldicarb	30	100	<LOQ	Azoxystrobin	10	3000	<LOQ
Bifenazate	30	3000	<LOQ	Bifenthrin	30	500	<LOQ
Carbaryl	10	500	<LOQ	Chlorfenapyr	48	100	<LOQ
Chlorpyrifos	30	100	<LOQ	Clofentezine	30	500	<LOQ
Coumaphos	30	100	<LOQ	Cyfluthrin	30	1000	<LOQ
Cypermethrin	30	1000	<LOQ	Daminozide	30	100	<LOQ
Diazinon	30	200	<LOQ	Dichlorvos	30	100	<LOQ
Dimethoate	30	100	<LOQ	Dimethomorph	30	3000	<LOQ
Ethoprophos	30	100	<LOQ	Etofenprox	30	100	<LOQ
Etoxazole	30	1500	<LOQ	Fenhexamid	30	3000	<LOQ
Fenoxycarb	30	100	<LOQ	Fenpyroximate	30	2000	<LOQ
Fipronil	30	100	<LOQ	Flonicamid	30	2000	<LOQ
Fludioxonil	30	3000	<LOQ	Hexythiazox	30	2000	<LOQ
Imazalil	30	100	<LOQ	Imidacloprid	30	3000	<LOQ
Kresoxim Methyl	30	1000	<LOQ	Malathion	30	2000	<LOQ
Metalaxyl	10	3000	<LOQ	Methiocarb	30	100	<LOQ
Methomyl	30	100	<LOQ	Mevinphos	30	100	<LOQ
Myclobutanil	30	3000	<LOQ	Naled	30	500	<LOQ
Oxamyl	30	500	<LOQ	Pacllobutrazol	30	100	<LOQ
Parathion-methyl	48	100	<LOQ	Pentachloronitrobenzene	30	200	<LOQ
Permethrin	30	1000	<LOQ	Phosmet	30	200	<LOQ
Piperonylbutoxide	30	3000	<LOQ	Prallethrin	30	400	<LOQ
Propiconazole	30	1000	<LOQ	Propoxur	30	100	<LOQ
Pyrethrins	30	1000	<LOQ	Pyridaben	30	3000	<LOQ
Spinetoram	30	3000	<LOQ	Spiromesifen	30	3000	<LOQ
Spirotetramat	30	3000	<LOQ	Spiroxamine	30	100	<LOQ
Tebuconazole	30	1000	<LOQ	Thiacloprid	30	100	<LOQ
Thiamethoxam	30	1000	<LOQ	Trifloxystrobin	30	3000	<LOQ

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Residual Solvents - FL (CBD) **Passed**
(GCMS)

Specimen Weight: 11.600 mg

Dilution Factor: 1.000

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.16	8	<LOQ	1,2-Dichloroethane	0.04	5	<LOQ
Acetone	2.08	5000	<LOQ	Acetonitrile	1.17	410	<LOQ
Benzene	0.02	2	<LOQ	Butanes	2.5	2000	<LOQ
Chloroform	0.04	60	<LOQ	Ethanol	2.78	5000	<LOQ
Ethyl Acetate	1.11	5000	<LOQ	Ethyl Ether	1.39	5000	<LOQ
Ethylene Oxide	0.1	5	<LOQ	Heptane	1.39	5000	<LOQ
Hexane	1.17	290	<LOQ	Isopropyl alcohol	1.39	500	<LOQ
Methanol	0.69	3000	<LOQ	Methylene chloride	2.43	600	<LOQ
Pentane	2.08	5000	<LOQ	Propane	5.83	2100	<LOQ
Toluene	2.92	890	<LOQ	Total Xylenes	2.92	2170	<LOQ
Trichloroethylene	0.49	80	<LOQ				

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Pathogenic Microbiology SAE (MicroArray)

Passed
(Micro Array)

Specimen Weight: 1047.230 mg

Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	Aspergillus fumigatus	Absence in 1g
Aspergillus niger	Absence in 1g	Aspergillus terreus	Absence in 1g
Salmonella	Absence in 1g	STEC E. Coli	Absence in 1g



Listeria Monocytogenes

Passed
(qPCR)

Specimen Weight: 980.000 mg

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result
Listeria Monocytogenes	1	Absence in 1g

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Vitamin E (Tocopheryl Acetate)

Specimen Weight: 168.000 mg

Tested
(LC-MS)

Dilution Factor: 1.531

Analyte	Result (ppb)	Analyte	Result (ppb)
Vitamin E Acetate	Not Detected		

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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), *Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, *Total Detected Cannabinoids = Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THC + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC, *Total THC-O-Acetate = Delta 8 THC-O-Acetate + 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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