



Certificate of Analysis

Compliance Test

Client Information:

Coastal Lime LLC

7901 4th Street N Suite 300
St. Petersburg, Florida 33702

Order # COA240613-010001

Order Date: 2024-06-13

Sample # AAFR409

Batch # 1

Batch Date: 2024-06-13

Extracted From: Kratom

Sampling Date: 2024-06-13

Lab Batch Date: 2024-06-13

Orig. Completion Date: 2024-06-17

Serving Number: 0.00000

Initial Gross Weight: 17.288 g

Density: 1.096 g/ml

Volume: 15 ml

Statement of Amendment: Updated Net Weight; Density

 Kratom
Tested Heavy Metals
Tested Mycotoxins
Passed Pesticides
Passed Residual Solvents
Passed Pathogenic
Passed Microbiology Petrifilm
Passed

Kratom Alkaloids *

Specimen Weight: 264.300 mg

SOP 13.062 Kratom Alkaloids
(LCMS)

Tested

Total Detectable Alkaloids

Total Kratom Alkaloids
2.174% 23.831mg/ml

Pieces For Panel: 1

Analyte	LOQ (%)	Result (mg/ml)	(%)
Mitragynine	0.0146	19.135	1.74593
Paynantheine	0.0146	1.795	0.16374
Speciociliatine	0.0146	1.484	0.13536
Speciogynine	0.0146	1.417	0.12933
7-Hydroxy Mitragynine	0.0146	<LOQ	<LOQ
Corynoxine B	0.0146	<LOQ	<LOQ
Isorhynchophylline	0.0146	<LOQ	<LOQ
Mitraphylline	0.0146	<LOQ	<LOQ

Prep. By: 1195

Date: 2024-06-13 18:49:08

Analyzed By: 1263

Date: 2024-06-13 14:54:25

Reviewed By: 1050

Date: 2024-06-17 15:55:30

Lab Batch #: AAFR409-412

Date: 2024-06-17 15:55:30

Aixa Sun Lab Director/Principal Scientist

D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: (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, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram. ACS uses simple acceptance criteria. Passed – Analyte/microbe is not detected or is at the level below the action limit per FL rule 64ER20-39, 5K-4.036, 5K-4.034. Failed – Analyte/microbe is at the level that equal or above the action limit per FL rule 64ER20-39, 5K-4.036, 5K-4.034 Sample not received via laboratory sampling. Revised report- see statement of amendment above.

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Order Date: 2024-06-13
Sample # AAFR409Sampling Date: 2024-06-13
Lab Batch Date: 2024-06-13
Orig. Completion Date: 2024-06-17Serving Number: 0.00000
Initial Gross Weight: 17.288 g
Net Weight: 9.699 g
Density: 1.096 g/ml
Volume: 15 ml

Residual Solvents – FL

Specimen Weight: 303.200 mg

Passed
SOP13.039 (GCMS)

Dilution Factor: 500.000

Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.0094	0.132	8	<LOQ	Heptane	0.0013	8	5000	<LOQ
1,2-Dichloroethane	0.0003	0.032	2	<LOQ	Hexane	0.068	0.8	250	<LOQ
Acetone	0.015	12	750	<LOQ	Isopropyl alcohol	0.0048	8	500	<LOQ
Acetonitrile	0.06	0.96	60	<LOQ	Methanol	0.0005	4	250	<LOQ
Benzene	0.0002	0.016	1	<LOQ	Methylene chloride	0.0029	2	125	<LOQ
Butanes	0.4167	13.32	5000	<LOQ	Pentane	0.037	12	750	<LOQ
Chloroform	0.0001	0.032	2	<LOQ	Propane	0.031	26.668	5000	<LOQ
Ethanol	0.0021	16	5000	<LOQ	Toluene	0.0009	2.4	150	<LOQ
Ethyl Acetate	0.0012	6.4	400	<LOQ	Total Xylenes	0.0001	7.2	150	<LOQ
Ethyl Ether	0.0049	8	500	<LOQ	Trichloroethylene	0.0014	0.4	25	<LOQ
Ethylene Oxide	0.0038	0.32	5	<LOQ					

Prep. By: 1225

Date: 2024-06-13 16:39:22

Analyzed By: 1225

Date: 2024-06-13 16:39:22

Reviewed By: 1051

Date: 2024-06-14 12:16:57

Lab Batch #: AAFR409-55

Date: 2024-06-14 12:16:57



Kratom Heavy Metals

Specimen Weight: 252.500 mg

Tested
SOP13.048 (ICP-MS)

Dilution Factor: 198.020

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	.019	0.5	1500	<LOQ	Manganese (Mn)	.04694	5	900000	<LOQ
Cadmium (Cd)	.004	0.5	300	<LOQ	Mercury (Hg)	.010	0.5	500	5.96
Lead (Pb)	.044	0.5	1000	3.33	Nickel (Ni)	.149	1.25	200000	<LOQ

Prep. By: 1264

Date: 2024-06-14 13:24:30

Analyzed By: 1264

Date: 2024-06-14 13:24:30

Reviewed By: 1256

Date: 2024-06-15 17:14:20

Lab Batch #: AAFR409-413

Date: 2024-06-15 17:14:20



Mycotoxins

Specimen Weight: 607.000 mg

Passed
SOP13.007 (LCMS)

Dilution Factor: 2.470

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	3.0400E-1	6	20	<LOQ	Aflatoxin G2	2.7100E-1	6	20	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	3.8	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					

Prep. By: 1256

Date: 2024-06-13 18:40:48

Analyzed By: 1256

Date: 2024-06-13 18:40:48

Reviewed By: 1183

Date: 2024-06-15 16:02:36

Lab Batch #: AAFR409-165

Date: 2024-06-15 16:02:36

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

Definitions are found on page 1

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Order Date: 2024-06-13
Sample # AAFR409

Sampling Date: 2024-06-13
Lab Batch Date: 2024-06-13
Orig. Completion Date: 2024-06-17

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Density: 1.096 g/ml
Volume: 15 ml



Pathogenic SE (Microarray)

Specimen Weight: 1022.300 mg

Passed

SOP13.019 (Micro Array)

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
E. Coli	1	Absence in 1g	Salmonella	1	Absence in 1g
Prep. By: 1161	Date: 2024-06-15 14:50:18		Analyzed By: 1225	Date: 2024-06-16 15:54:15	
Reviewed By: 1225	Date: 2024-06-16 19:28:55		Lab Batch #: AAFR409-445	Date: 2024-06-16 19:28:55	



Microbiology ACEC (Petrifilm)

Specimen Weight: 994.800 mg

Passed

SOP13.003 (Petrifilm)

Dilution Factor: 1.000

Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Result (cfu/g)	Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Result (cfu/g)
Aerobic Bacteria	20	10000	<10	Yeast/Mold	20	1000	<10
Coliform	20	100	<10				
Prep. By: 1179	Date: 2024-06-13 15:55:01		Analyzed By: 1179	Date: 2024-06-13 15:55:01			
Reviewed By: 1161	Date: 2024-06-15 14:19:24		Lab Batch #: AAFR409-443	Date: 2024-06-15 14:19:24			

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

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Order Date: 2024-06-13
Sample # AAFR409

Sampling Date: 2024-06-13
Lab Batch Date: 2024-06-13
Orig. Completion Date: 2024-06-17

Serving Number: 0.00000
Initial Gross Weight: 17.288 g
Net Weight: 9.699 g
Density: 1.096 g/ml
Volume: 15 ml



Pesticides

Specimen Weight: 607.000 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.470

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	2.8800E-1	28.23	300	<LOQ	Fludioxonil	1.7400E+0	48	3000	<LOQ
Acephate	2.3000E-2	30	3000	<LOQ	Hexythiazox	4.9000E-2	30	2000	<LOQ
Acequinocyl	9.5640E+0	48	2000	<LOQ	Imazalil	2.4800E-1	30	100	<LOQ
Acetamiprid	5.2000E-2	30	3000	<LOQ	Imidacloprid	9.4000E-2	30	3000	<LOQ
Aldicarb	2.6000E-2	30	100	<LOQ	Kresoxim Methyl	4.2000E-2	30	1000	<LOQ
Azoxystrobin	8.1000E-2	10	3000	<LOQ	Malathion	8.2000E-2	30	2000	<LOQ
Bifenazate	1.4150E+0	30	3000	<LOQ	Metaxyl	8.1000E-2	10	3000	<LOQ
Bifenthrin	4.3000E-2	30	500	<LOQ	Methiocarb	3.2000E-2	30	100	<LOQ
Boscalid	5.5000E-2	10	3000	<LOQ	Methomyl	2.2000E-2	30	100	<LOQ
Captan	6.1200E+0	30	3000	<LOQ	methyl-Parathion	1.7100E+0	10	100	<LOQ
Carbaryl	2.2000E-2	10	500	<LOQ	Mevinphos	2.1500E+0	10	100	<LOQ
Carbofuran	3.4000E-2	10	100	<LOQ	Myclobutanil	1.0290E+0	30	3000	<LOQ
Chlorantraniliprole	3.3000E-2	10	3000	<LOQ	Naled	9.5000E-2	30	500	<LOQ
Chlordane	1.0000E+1	10	100	<LOQ	Oxamyl	2.5000E-2	30	500	<LOQ
Chlorfenapyr	3.4000E-2	30	100	<LOQ	Paclobutrazol	6.5000E-2	30	100	<LOQ
Chlormequat Chloride	1.0800E-1	10	3000	<LOQ	Pentachloronitrobenzene	1.3200E+0	10	200	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Permethrin	3.4300E-1	30	1000	<LOQ
Clofentezine	1.1900E-1	30	500	<LOQ	Phosmet	8.2000E-2	30	200	<LOQ
Coumaphos	3.7700E+0	48	100	<LOQ	Piperonylbutoxide	2.9000E-2	30	3000	<LOQ
Cyfluthrin	3.1100E+0	30	1000	<LOQ	Prallethrin	7.9800E-1	30	400	<LOQ
Cypermethrin	1.4490E+0	30	1000	<LOQ	Propiconazole	7.0000E-2	30	1000	<LOQ
Daminozide	8.8500E-1	30	100	<LOQ	Propoxur	4.6000E-2	30	100	<LOQ
Diazinon	4.4000E-2	30	200	<LOQ	Pyrethrins	2.3593E+1	30	1000	<LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ	Pyridaben	3.2000E-2	30	3000	<LOQ
Dimethoate	2.1000E-2	30	100	<LOQ	Spinetoram	8.0000E-2	10	3000	<LOQ
Dimethomorph	5.8300E+0	48	3000	<LOQ	Spinosad	8.8000E-2	30	3000	<LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ	Spiromesifen	2.6100E-1	30	3000	<LOQ
Etofenprox	1.1600E-1	30	100	<LOQ	Spirotetramat	8.9000E-2	30	3000	<LOQ
Etoxazole	9.5000E-2	30	1500	<LOQ	Spiroxamine	1.3100E-1	30	100	<LOQ
Fenhexamid	5.1000E-1	10	3000	<LOQ	Tebuconazole	6.7000E-2	30	1000	<LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ	Thiacloprid	6.4000E-2	30	100	<LOQ
Fenpyroximate	1.3800E-1	30	2000	<LOQ	Thiamethoxam	5.0000E-2	30	1000	<LOQ
Fipronil	1.0700E-1	30	100	<LOQ	Trifloxystrobin	3.7000E-2	30	3000	<LOQ
Fonicamid	5.1700E-1	30	2000	<LOQ					

Prep. By: 1256

Date: 2024-06-13 18:40:48

Analyzed By: 1256

Date: 2024-06-13 18:40:48

Reviewed By: 1183

Date: 2024-06-15 16:02:36

Lab Batch #: AAFR409-202

Date: 2024-06-15 16:02:36

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

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