ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE
721 Cortaro Dr.
Sun City Center, FL 33573
www.acslabcannabis.com

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

Reefer's Bay Cannonball
Sample Matrix: CBD/HEMP Derivative Products (Inhalation - Heated)

Certificate of Analysis

Compliance Test

REEFER'S BAY
275 MEDICAL DR 4783
CARMEL, IN 46038

Batch # 20OCT2022-RBCABA
Batch Date: 2022-10-20
Extracted From: Hemp

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Order # REE221205-020001
Order Date: 2022-12-05
Sample # AADV030

Sampling Date: 2022-12-08
Lab Batch Date: 2022-12-08
Completion Date: 2022-12-14

Initial Gross Weight: 12.645 g

Product Image

Acetic Anhydride **Tested**
Potency **Tested**
Terpenes **Tested**
Heavy Metals **Passed**
Mycotoxins **Passed**
Pesticides **Passed**
Residual Solvents **Passed**
Pathogenic Microbiology **Passed**
Listeria Monocytogenes **Passed**

Potency 23 (LCUV)

Tested

Specimen Weight: 52.460 mg

SOP13.002 (LCUV)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-9 THC-O Acetate	1000.000	7.70E-5	0.0003	529.4000	52.9400
Delta-8 THC-O Acetate	100.000	2.70E-5	0.0003	153.0000	15.3000
Delta-8 THC	100.000	2.60E-5	0.0015	87.2000	8.7200
CBN	100.000	1.40E-5	0.0015	43.2500	4.3250
CBC	100.000	1.80E-5	0.0015	42.3700	4.2370
Delta-8 THCV	10.000	4.00E-5	0.0015	19.1300	1.9130
CBD	10.000	5.40E-5	0.0015	0.3930	0.0393
CBGA	10.000	8.00E-5	0.0015	0.3210	0.0321
CBCA	10.000	1.07E-4	0.0015	<LOQ	<LOQ
CBDA	10.000	1.00E-5	0.0015	<LOQ	<LOQ
CBDV	10.000	6.50E-5	0.0015	<LOQ	<LOQ
CBDVA	10.000	1.40E-5	0.0015	<LOQ	<LOQ
CBG	10.000	2.48E-4	0.0015	<LOQ	<LOQ
CBL	10.000	3.50E-5	0.0015	<LOQ	<LOQ
CBNA	10.000	9.50E-5	0.0015	<LOQ	<LOQ
CBT	10.000	2.00E-4	0.0015	<LOQ	<LOQ
Delta-9 THC	10.000	1.30E-5	0.0015	<LOQ	<LOQ
Delta8-THCP	10.000	3.75E-4	0.0015	<LOQ	<LOQ
Delta9-THCP	10.000	1.17E-5	0.0012	<LOQ	<LOQ
Exo-THC	10.000	2.30E-4	0.0015	<LOQ	<LOQ
THCA-A	10.000	3.20E-5	0.0015	<LOQ	<LOQ
THCV	10.000	7.00E-6	0.0015	<LOQ	<LOQ
THCVA	10.000	4.70E-5	0.0015	<LOQ	<LOQ

Potency Summary

Total Active THC: - None Detected	Total Active CBD: 0.039% <LOQ
Total CBG: 0.028% <LOQ	Total CBN: 4.325% <LOQ
Other Cannabinoids: 83.110% <LOQ	Total Cannabinoids: 87.502% <LOQ

Terpenes Summary

Analyte	Result (mg/g)	(%)
beta-Myrcene	6.84	0.684%
alpha-Pinene	4.99	0.499%
trans-Caryophyllene	4.23	0.423%
(R)-(+)-Limonene	3.69	0.369%
Linalool	2.45	0.245%
beta-Pinene	2.26	0.226%
alpha-Bisabolol	1.25	0.125%
alpha-Phellandrene	0.99	0.099%
alpha-Humulene	0.77	0.077%

Total Terpenes: 2.747%

Detailed Terpenes Analysis is on the following page

Xueli Gao, Ph.D., DABT — Lab Toxicologist
Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB) — Lab Director/Principal Scientist

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Initial Gross Weight: 12.645 g

Pesticides FL V4

Passed
SOP13.007 (LCMS/GCMS)

Specimen Weight: 258.790 mg

Dilution Factor: 5.800

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	Metalaxyl	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
Flonicamid	5.1700E-1	30	2000	<LOQ					

Pathogenic Microbiology SAE (MicroArray)

Passed
SOP13.019 (Micro Array)

Specimen Weight: 1021.670 mg

Dilution Factor: 1.000

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

Acetic Anhydride

Tested
SOP13.046 (GCMS)

Specimen Weight: 103.600 mg

Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
Acetic Anhydride	.527	50	<LOQ

Listeria Monocytogenes

Passed
SOP13.032 (qPCR)

Specimen Weight: 985.400 mg

Dilution Factor: 1.000

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

Xueli Gao, Ph.D., DABT — Lab Toxicologist

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

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Lab Batch Date: 2022-12-08
Completion Date: 2022-12-14

Initial Gross Weight: 12.645 g

Terpenes

Tested

Specimen Weight: 57.090 mg

SOP13.045 (GC/GCMS)

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
beta-Myrcene	0.002	6.840	0.684	Farnesene	0.002		<LOQ
alpha-Pinene	0.002	4.990	0.499	Fenchone	0.002		<LOQ
trans-Caryophyllene	0.002	4.230	0.423	Fenchyl Alcohol	0.002		<LOQ
(R)-(+)-Limonene	0.002	3.690	0.369	Gamma-Terpinene	0.002		<LOQ
Linalool	0.002	2.450	0.245	Geraniol	0.002		<LOQ
beta-Pinene	0.002	2.260	0.226	Geranyl acetate	0.002		<LOQ
alpha-Bisabolol	0.002	1.250	0.125	Guaiol	0.002		<LOQ
alpha-Phellandrene	0.002	0.990	0.099	Hexahydrothymol	0.002		<LOQ
alpha-Humulene	0.002	0.770	0.077	Isoborneol	0.002		<LOQ
(+)-Cedrol	0.002		<LOQ	Isopulegol	0.002		<LOQ
3-Carene	0.002		<LOQ	Nerol	0.002		<LOQ
alpha-Cedrene	0.002		<LOQ	Ocimene	0.00033		<LOQ
alpha-Terpinene	0.002		<LOQ	Pulegone	0.002		<LOQ
Borneol	0.004		<LOQ	Sabinene	0.002		<LOQ
Camphene	0.002		<LOQ	Sabinene Hydrate	0.002		<LOQ
Camphors	0.006		<LOQ	Terpinolene	0.002		<LOQ
Caryophyllene oxide	0.002		<LOQ	Total Terpineol	0.00126		<LOQ
cis-Nerolidol	0.002		<LOQ	trans-Nerolidol	0.002		<LOQ
Eucalyptol	0.002		<LOQ	Valencene	0.002		<LOQ

Total Terpenes: 2.747%

Residual Solvents - FL (CBD)

Passed

Specimen Weight: 12.800 mg

SOP13.039 (GCMS)

Dilution Factor: 1.000

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	0.16	8	<LOQ	Heptane	0.0013	1.39	5000	<LOQ
1,2-Dichloroethane	0.0003	0.04	5	<LOQ	Hexane	0.068	1.17	290	<LOQ
Acetone	0.015	2.08	5000	<LOQ	Isopropyl alcohol	0.0048	1.39	500	<LOQ
Acetonitrile	0.06	1.17	410	<LOQ	Methanol	0.0005	0.69	3000	<LOQ
Benzene	0.0002	0.02	2	<LOQ	Methylene chloride	0.0029	2.43	600	<LOQ
Butanes	0.4167	2.5	2000	<LOQ	Pentane	0.037	2.08	5000	<LOQ
Chloroform	0.0001	0.04	60	<LOQ	Propane	0.031	5.83	2100	<LOQ
Ethanol	0.0021	2.78	5000	<LOQ	Toluene	0.0009	2.92	890	<LOQ
Ethyl Acetate	0.0012	1.11	5000	<LOQ	Total Xylenes	0.0001	2.92	2170	<LOQ
Ethyl Ether	0.0049	1.39	5000	<LOQ	Trichloroethylene	0.0014	0.49	80	<LOQ
Ethylene Oxide	0.0038	0.1	5	<LOQ					

Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun Lab Director/Principal Scientist
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Initial Gross Weight: 12.645 g

Mycotoxins

Passed
SOP13.007 (LCMS)

Specimen Weight: 258.790 mg

Dilution Factor: 5.800

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	12	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					

Heavy Metals

Passed
SOP13.048 (ICP-MS)

Specimen Weight: 254.620 mg

Dilution Factor: 196

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	4.83	100	1500	<LOQ	Lead (Pb)	11.76	100	500	<LOQ
Cadmium (Cd)	.64	100	500	<LOQ	Mercury (Hg)	.58	100	3000	<LOQ

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