

CERTIFICATE OF ANALYSIS

PRODUCED: SEP 25, 2022

SAMPLE: ASTRONAUT ICE CREAM (CONCENTRATE) // CLIENT: COASTAL REFINEMENT SOLUTIONS // BATCH: PASS



BATCH NO.: CS2239
 METRC UID: 1A4060300008278000001226
 MATRIX: CONCENTRATE
 CATEGORY: INHALABLE
 SAMPLE ID: BCL-220921-284
 COLLECTED ON: SEP 21, 2022
 RECEIVED ON: SEP 21, 2022
 BATCH/SAMPLE SIZE: 1228 UNITS / 13 UNITS
 PACKAGE SIZE: 1 G

CANNABINOID OVERVIEW

TOTAL THC:	74.58258 %
TOTAL CBD:	0.15048 %
SUM OF CANNABINOIDS:	89.44004 %

MANUFACTURER INFO

MANUFACTURER
 COASTAL REFINEMENT SOLUTIONS
 1636 DEL MONTE BLVD
 SEASIDE, CA 93955

LICENSE
 CDPH-10003645
 ADULT-USE AND MEDICINAL -
 MANUFACTURING LICENSE

DISTRIBUTOR INFO

DISTRIBUTOR
 COASTAL REFINEMENT SOLUTIONS
 1636 DEL MONTE BLVD
 SEASIDE, CA 93955

LICENSE
 C11-0000822-LIC
 ADULT-USE AND MEDICINAL -
 DISTRIBUTOR LICENSE



BCL-03: CANNABINOID POTENCY BY HPLC-UV // SEP 23, 2022

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	0.07961 %	0.7961 mg/g	0.02195/0.4988	N/A
CBCA	1.60106 %	16.0106 mg/g	0.06285/0.4988	N/A
CBD	ND	ND	0.03093/0.4988	N/A
CBDA	0.17159 %	1.7159 mg/g	0.01596/0.4988	N/A
CBDV	ND	ND	0.02394/0.4988	N/A
CBDVA	ND	ND	0.01596/0.4988	N/A
CBG	0.22616 %	2.2616 mg/g	0.02893/0.4988	N/A
CBGA	2.27723 %	22.7723 mg/g	0.01995/0.4988	N/A
CBN	ND	ND	0.01596/0.4988	N/A
Δ ⁸ -THC	ND	ND	0.05786/0.4988	N/A
Δ ⁹ -THC	1.96149 %	19.6149 mg/g	0.0419/0.4988	N/A
THCA	82.80626 %	828.0626 mg/g	0.02993/0.4988	N/A
THCV	ND	ND	0.03292/0.4988	N/A
THCVA	0.31664 %	3.1664 mg/g	0.02294/0.4988	N/A
TOT THC**	74.58258 %	745.8258 mg/g		N/A
TOT CBD**	0.15048 %	1.5048 mg/g		N/A
CBD/PKG	ND			N/A
Δ ⁹ -THC/PKG	19.61 mg			PASS
TOT THC/PKG**	745.83 mg			N/A
TOT CBD/PKG**	1.50 mg			N/A

BCL-09: TERPENOID TESTING BY HS-GC/FID // SEP 24, 2022

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
TOTAL TERPENES	5.93937 %	59.3937 mg/g		N/A
D-LIMONENE	2.97621 %	29.7621 mg/g	0.00025/0.13892	N/A
β-CARYOPHYLLENE	1.18044 %	11.8044 mg/g	0.00191/0.13892	N/A
β-MYRCENE	0.55895 %	5.5895 mg/g	0.00038/0.13892	N/A
α-HUMULENE	0.39442 %	3.9442 mg/g	0.00047/0.13892	N/A
β-PINENE	0.33345 %	3.3345 mg/g	0.00225/0.13892	N/A
LINALOOL	0.23911 %	2.3911 mg/g	0.00037/0.13892	N/A
α-PINENE	0.17359 %	1.7359 mg/g	0.00021/0.13892	N/A
CAMPHENE	0.05190 %	0.5190 mg/g	0.00022/0.13892	N/A
TERPINOLENE	0.02508 %	0.2508 mg/g	0.00029/0.13892	N/A
CIS-β-OCIMENE	0.00622 %	0.0622 mg/g	0.00134/0.04306	N/A
GERANIOL	< LOQ	< LOQ	0.00029/0.13892	N/A
α-BISABOLOL	ND	ND	0.00433/0.13892	N/A
α-TERPINENE	ND	ND	0.0003/0.13892	N/A
Δ ³ -CARENE	ND	ND	0.00046/0.13892	N/A
EUCALYPTOL	ND	ND	0.00047/0.13892	N/A
γ-TERPINENE	ND	ND	0.00047/0.13892	N/A
GUAIOL	ND	ND	0.00271/0.13892	N/A
ISOPULEGOL	ND	ND	0.00054/0.13892	N/A
P-CYMENE	ND	ND	0.00027/0.13892	N/A
TRANS-β-OCIMENE	ND	ND	0.0005/0.09585	N/A

** TOTAL CBD = (CBDA X 0.877) + CBD
 ** TOTAL THC = (THCA X 0.877) + THC



SAMPLE WAS TESTED AS RECEIVED. ALL LQC SAMPLES REQUIRED BY SECTION 15730 OF CALIFORNIA CODE OF REGULATIONS TITLE 4 DIVISION 19 DEPARTMENT OF CANNABIS CONTROL WERE PERFORMED AND MET THE ACCEPTANCE CRITERIA. ALL DECISION RULES ARE ESTABLISHED BY THE DCC.

RESULTS CERTIFIED BY: CODY SHEPPARD, PH.D.
 SCIENCE DIRECTOR, BELCOSTA LABS
 SEP 25, 2022

BCL-13: PESTICIDE TESTING BY GC/MS // SEP 23, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
CAPTAN	0.7 µg/g	ND	0.03149/0.09537	PASS
CHLORDANE	Any amt	ND		PASS
CHLORDANE CIS		ND	0.01114/0.03377	N/A
CHLORDANE TRANS		ND	0.01066/0.03221	N/A
CHLORFENAPYR	Any amt	ND	0.02401/0.07268	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
CHLORPYRIFOS	Any amt	ND	0.0112/0.03401	PASS
DICHLORVOS	Any amt	ND	0.01179/0.03574	PASS
METHYL PARATHION	Any amt	ND	0.01353/0.04101	PASS
PENTACHLORONI-TROBENZENE	0.1 µg/g	ND	0.01407/0.04269	PASS

BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI // SEP 23, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ABAMECTIN	0.1 µg/g	ND	0.0244/0.07393	PASS
ACEPHATE	0.1 µg/g	ND	0.01224/0.0371	PASS
ACEQUINOCYL	0.1 µg/g	ND	0.01993/0.06038	PASS
ACETAMIPRID	0.1 µg/g	ND	0.0043/0.01302	PASS
ALDICARB	Any amt	ND	0.01219/0.03693	PASS
AZOXYSTROBIN	0.1 µg/g	ND	0.00771/0.02337	PASS
BIFENAZATE	0.1 µg/g	ND	0.00373/0.01131	PASS
BIFENTHRIN	3 µg/g	ND	0.01267/0.03839	PASS
BOSCALID	0.1 µg/g	ND	0.01406/0.04261	PASS
CARBARYL	0.5 µg/g	ND	0.00615/0.01865	PASS
CARBOFURAN	Any amt	ND	0.00411/0.01246	PASS
CHLORANTRANIL-IPROLE	10 µg/g	ND	0.01069/0.0324	PASS
CLOFENTEZINE	0.1 µg/g	ND	0.01404/0.04256	PASS
COUMAPHOS	Any amt	ND	0.01952/0.05914	PASS
CYFLUTHRIN	2 µg/g	ND	0.1511/0.45788	PASS
CYPERMETHRIN	1 µg/g	ND	0.02284/0.06921	PASS
DAMINOZIDE	Any amt	ND	0.0237/0.07182	PASS
DIAZINON	0.1 µg/g	ND	0.0027/0.00818	PASS
DIMETHOATE	Any amt	ND	0.00353/0.01069	PASS
DIMETHOMORPH	2 µg/g	ND		PASS
DIMETHOMORPH I		ND	0.00554/0.01679	N/A
DIMETHOMORPH II		ND	0.00327/0.00992	N/A
ETHOPROPHOS	Any amt	ND	0.00632/0.01914	PASS
ETOFENPROX	Any amt	ND	0.00604/0.01831	PASS
ETOXAZOLE	0.1 µg/g	ND	0.00363/0.01099	PASS
FENHEXAMID	0.1 µg/g	ND	0.01344/0.04073	PASS
FENOXYCARB	Any amt	ND	0.0047/0.01423	PASS
FENPYROXIMATE	0.1 µg/g	ND	0.00277/0.0084	PASS
FIPRONIL	Any amt	ND	0.00678/0.02054	PASS
FLONICAMID	0.1 µg/g	ND	0.0046/0.01393	PASS
FLUDIOXONIL	0.1 µg/g	ND	0.03245/0.09834	PASS
HEXYTHIAZOX	0.1 µg/g	ND	0.00409/0.01238	PASS
IMAZALIL	Any amt	ND	0.012/0.03637	PASS
IMIDACLOPRID	5 µg/g	ND	0.00796/0.02411	PASS
KRESOXIM-METHYL	0.1 µg/g	ND	0.00989/0.02997	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
METALAXYL	2 µg/g	ND	0.0058/0.01757	PASS
METHIOCARB	Any amt	ND	0.00885/0.02681	PASS
METHOMYL	1 µg/g	ND	0.00837/0.02537	PASS
MEVINPHOS	Any amt	ND		PASS
MEVINPHOS I		ND	0.001/0.00303	N/A
MEVINPHOS II		ND	0.00529/0.01603	N/A
MYCLOBUTANIL	0.1 µg/g	ND	0.01719/0.0521	PASS
NALED	0.1 µg/g	ND	0.01059/0.0321	PASS
OXAMYL	0.5 µg/g	ND	0.00617/0.01869	PASS
PACLOBUTRAZOL	Any amt	ND	0.01076/0.03262	PASS
PERMETHRIN	0.5 µg/g	ND		PASS
PERMETHRIN CIS		ND	0.00993/0.03008	N/A
PERMETHRIN TRANS		ND	0.01265/0.03833	N/A
PHOSMET	0.1 µg/g	ND	0.00601/0.01822	PASS
PIPERONYLBUTO-XIDE	3 µg/g	ND	0.00261/0.00791	PASS
PRALLETHRIN	0.1 µg/g	ND	0.00989/0.02996	PASS
PROPICONAZOLE	0.1 µg/g	ND	0.00577/0.01747	PASS
PROPOXUR	Any amt	ND	0.00593/0.01798	PASS
PYRETHRINS	0.5 µg/g	ND		PASS
PYRETHRINS PYRETHRIN I		ND	0.00435/0.01318	N/A
PYRETHRINS PYRETHRIN II		ND	0.00386/0.01169	N/A
PYRIDABEN	0.1 µg/g	ND	0.00388/0.01176	PASS
SPINETORAM	0.1 µg/g	ND		PASS
SPINETORAM J		ND	0.00694/0.02103	N/A
SPINETORAM L		ND	0.00902/0.02734	N/A
SPINOSAD	0.1 µg/g	ND		PASS
SPINOSAD A		ND	0.00799/0.02422	N/A
SPINOSAD D		ND	0.00275/0.00834	N/A
SPIROMESIFEN	0.1 µg/g	ND	0.00693/0.021	PASS
SPIROTETRAMAT	0.1 µg/g	ND	0.00537/0.01627	PASS
SPIROXAMINE	Any amt	ND	0.00549/0.01663	PASS
TEBUCONAZOLE	0.1 µg/g	ND	0.00874/0.02647	PASS
THIACLOPRID	Any amt	ND	0.00458/0.01389	PASS
THIAMETHOXAM	5 µg/g	ND	0.00395/0.01196	PASS
TRIFLOXYSTROB-IN	0.1 µg/g	ND	0.00354/0.01072	PASS



MALATHION 0.5 µg/g ND 0.00701/0.02124 PASS

BCL-18: RESIDUAL SOLVENTS ANALYSIS BY HS-GC-MS // SEP 23, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
1,2-DICHLOROETHANE	1 µg/g	ND	0.17173/0.59904	PASS
ACETONE	5000 µg/g	ND	19.32907/59.90415	PASS
ACETONITRILE	410 µg/g	ND	17.15256/59.90415	PASS
BENZENE	1 µg/g	ND	0.07588/0.59904	PASS
BUTANE	5000 µg/g	ND	18.08706/59.90415	PASS
CHLOROFORM	1 µg/g	ND	0.17572/0.59904	PASS
ETHANOL	5000 µg/g	ND	14.82827/59.90415	PASS
ETHYL ACETATE	5000 µg/g	ND	18.3107/59.90415	PASS
ETHYLENE OXIDE	1 µg/g	ND	0.19169/0.59904	PASS
ETHYL ETHER	5000 µg/g	ND	16.13019/59.90415	PASS
HEPTANE	5000 µg/g	ND	14.11342/59.90415	PASS
HEXANE	290 µg/g	ND	21.72923/99.84026	PASS
ISOPROPYL ALCOHOL	5000 µg/g	ND	14.97604/59.90415	PASS
METHANOL	3000 µg/g	ND	13.43051/59.90415	PASS
METHYLENE CHLORIDE	1 µg/g	ND	0.15176/0.59904	PASS
PENTANE	5000 µg/g	ND	33.02716/99.84026	PASS
PROPANE	5000 µg/g	ND	17.0647/59.90415	PASS
TOLUENE	890 µg/g	ND	9.42891/59.90415	PASS
TRICHLOROETHYLENE	1 µg/g	ND	0.07987/0.59904	PASS
O-XYLENE		ND	4.46486/29.95208	N/A
P- AND M-XYLENE		ND	4.13738/29.95208	N/A
TOTAL XYLENES	2170 µg/g	ND		PASS

BCL-11: MYCOTOXIN TESTING BY LC-MS/MS // SEP 23, 2022

ANALYTE	LIMIT	AMT (µg/kg)	LOD/LOQ (µg/kg)	PASS/FAIL
AFLATOXIN B1		ND	1.97/5.96	N/A
AFLATOXIN B2		ND	1.32/3.99	N/A
AFLATOXIN G1		ND	1.6/4.86	N/A
AFLATOXIN G2		ND	1.46/4.44	N/A
AFLATOXINS	20 µg/kg	ND		PASS
OCHRATOXIN A	20 µg/kg	ND	1.35/4.08	PASS

BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY // SEP 22, 2022

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
IMBEDDED FOREIGN MATERIAL	25 %	ND	PASS
INSECT FRAGMENTS, HAIR, MAMMAL EXCREMENT	1 Unit	ND	PASS
MOLD	25 %	ND	PASS
SAND, SOIL, CINDERS, DIRT	25 %	ND	PASS

BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR // SEP 24, 2022

ANALYTE	LIMIT	AMT (CFU)	PASS/FAIL
ASPERGILLUS FLAVUS	Any amt in 1 gram	ND	PASS
ASPERGILLUS FUMIGATUS	Any amt in 1 gram	ND	PASS
ASPERGILLUS NIGER	Any amt in 1 gram	ND	PASS
ASPERGILLUS TERREUS	Any amt in 1 gram	ND	PASS
ESCHERICHIA COLI	Any amt in 1 gram	ND	PASS
SALMONELLA SPP.	Any amt in 1 gram	ND	PASS

BCL-020: HEAVY METAL TESTING BY ICP-MS // SEP 23, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ARSENIC	0.2 µg/g	< LOQ	0.001/0.05	PASS
CADMIUM	0.2 µg/g	< LOQ	0.0002/0.05	PASS
LEAD	0.5 µg/g	< LOQ	0.0003/0.05	PASS
MERCURY	0.1 µg/g	< LOQ	0.0001/0.01	PASS

