



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

Certificate of Analysis

Compliance Test

Balanced Health Botanicals
1500 W Hampden Ave
Sheridan, CO 80110

Batch # 4202540
Batch Date: 2021-02-03
Extracted From: Industrial Hemp

Test Reg State: Florida

Order # BAL210203-030023
Order Date: 2021-02-03
Sample # AAAY848

Sampling Date: 2021-02-08
Lab Batch Date: 2021-02-08
Completion Date: 2021-02-12

Initial Gross Weight: 38.005 g
Density: 0.9745 g/ml



Product Image

Potency **Tested**
 Heavy Metals **Passed**
 Mycotoxins **Passed**
 Pesticides **Passed**
 Residual Solvents **Passed**

Water Activity **Tested**
 Pathogenic **Passed**
 Microbiology (qPCR) **Passed**

Potency - 11
Specimen Weight: 119.340 mg

Tested
(HPLC/LCMS)

Potency Summary

Total THC 0.009%	Total CBD 6.765%
Total CBG 0.241%	Total CBN 0.015%
Other Cannabinoids 0.066%	Total Cannabinoids 7.097%

Pieces For Panel: 30

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/ml)	(%)
CBD	10.000	0.000054	0.001	65.925	6.765
CBG	10.000	0.000248	0.001	2.352	0.241
CBDV	10.000	0.000065	0.001	0.383	0.039
CBC	10.000	0.000018	0.001	0.261	0.027
CBN	10.000	0.000014	0.001	0.148	0.015
Delta-9 THC	10.000	0.000013	0.001	0.086	0.009
THCV	10.000	0.000007	0.001		<LOQ
Delta-8 THC	10.000	0.000026	0.001		<LOQ
CBGA	10.000	0.00008	0.001		<LOQ
CBDA	10.000	0.00001	0.001		<LOQ
THCA-A	10.000	0.000032	0.001		<LOQ

Xueli Gao Lab Toxicologist
Ph.D., DABT

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



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Sample # AAAY848

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Lab Batch Date: 2021-02-08
Completion Date: 2021-02-12

Initial Gross Weight: 38.005 g
Density: 0.9745 g/ml

H Heavy Metals

Specimen Weight: 247.700 mg

Passed
(ICP-MS)

Pieces For Panel: 30 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
Total Contaminant Load (TCL) None Detected							

Mycotoxins

Specimen Weight: 198.760 mg

Passed
(LCMS)

Pieces For Panel: 30 Dilution Factor: 7.547

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				

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

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



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Density: 0.9745 g/ml



Pesticides FL V4

Specimen Weight: 198.760 mg

Passed
(LCMS/GCMS)

Pieces For Panel: 30 Dilution Factor: 7.547

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
Boscalid	10	3000	<LOQ	Captan	30	3000	<LOQ
Carbaryl	10	500	<LOQ	Carbofuran	10	100	<LOQ
Chlorantraniliprole	10	3000	<LOQ	Chlordane	10	100	<LOQ
Chlorfenapyr	30	100	<LOQ	Chloromequat Chloride	10	3000	<LOQ
Chlorpyrifos	30	100	<LOQ	Clofentezine	30	500	<LOQ
Coumaphos	48	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	48	3000	<LOQ
Ethoprophos	30	100	<LOQ	Etofenprox	30	100	<LOQ
Etoxazole	30	1500	<LOQ	Fenhexamid	10	3000	<LOQ
Fenoxycarb	30	100	<LOQ	Fenpyroximate	30	2000	<LOQ
Fipronil	30	100	<LOQ	Flonicamid	30	2000	<LOQ
Fludioxonil	48	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	methyl-Parathion	10	100	<LOQ
Mevinphos	10	100	<LOQ	Myclobutanil	30	3000	<LOQ
Naled	30	500	<LOQ	Oxamyl	30	500	<LOQ
Paclbutrazol	30	100	<LOQ	Pentachloronitrobenzene	10	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	10	3000	<LOQ	Spinosad	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	Total Contaminant Load (TCL)	None Detected		

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Test Reg State: Florida

Order # BAL210203-030023
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Sample # AAAY848

Sampling Date: 2021-02-08
Lab Batch Date: 2021-02-08
Completion Date: 2021-02-12

Initial Gross Weight: 38.005 g
Density: 0.9745 g/ml

Residual Solvents – FL/UT (BHB) **Passed**
(GCMS)

Specimen Weight: 13.500 mg

Pieces For Panel: 30 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-Dimethoxyethane	0.04	100	<LOQ
1,2-Dichloroethane	1.67	2	<LOQ	1,4-Dioxane	1.67	380	<LOQ
1-Butanol	1.67	5000	<LOQ	1-Pentanol	1.67	5000	<LOQ
1-Propanol	1.67	5000	<LOQ	2,2-dimethylbutane	1.67	290	<LOQ
2,3-dimethylbutane	1.67	290	<LOQ	2-Butanol	1.67	5000	<LOQ
2-Butanone	6.4	5000	<LOQ	2-Ethoxyethanol	1.67	160	<LOQ
2-methylbutane	1.67	5000	<LOQ	2-Methylpentane	1.67	290	<LOQ
2-Propanol (IPA)	1.67	5000	<LOQ	3-Methylpentane	1.67	290	<LOQ
Acetone	1.67	5000	<LOQ	Acetonitrile	0.02	410	<LOQ
Benzene	1.67	2	<LOQ	Butane	1.67	2000	<LOQ
Chloroform	0.04	60	<LOQ	Cumene	1.67	70	<LOQ
Cyclohexane	1.67	3880	<LOQ	Dichloromethane	1.67	600	<LOQ
Dimethyl sulfoxide	1.67	5000	<LOQ	Ethanol	1.67	5000	<LOQ
Ethyl Acetate	1.11	5000	<LOQ	Ethyl Ether	1.39	5000	<LOQ
Ethylene glycol	1.67	620	<LOQ	Ethylene Oxide	0.1	5	<LOQ
Heptane	1.67	5000	<LOQ	Heptane	1.67	5000	<LOQ
Hexane	1.17	290	<LOQ	Isopropyl acetate	1.67	5000	<LOQ
Isopropyl alcohol	1.67	500	<LOQ	Methanol	0.69	3000	<LOQ
Methylene chloride	2.43	600	<LOQ	Methylpropane	1.67	5000	<LOQ
N,N-dimethylacetamide	1.67	1090	<LOQ	N,N-dimethylformamide	1.67	880	<LOQ
Pentane	1.67	5000	<LOQ	Propane	1.67	2100	<LOQ
Pyridine	1.67	100	<LOQ	Sulfolane	1.67	160	<LOQ
Tetrahydrofuran	1.67	720	<LOQ	Toluene	1.67	890	<LOQ
Total Xylenes	1.67	1000	<LOQ	Trichloroethylene	0.49	80	<LOQ

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Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
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Test Reg State: Florida

Order # BAL210203-030023
Order Date: 2021-02-03
Sample # AAAY848

Sampling Date: 2021-02-08
Lab Batch Date: 2021-02-08
Completion Date: 2021-02-12

Initial Gross Weight: 38.005 g
Density: 0.9745 g/ml



Water Activity

Specimen Weight: 0.500 g

Tested
(Water Activity Analyzer)

Pieces For Panel: 30 Dilution Factor: 1.000

Analyte	Action Level (aw)	Result (aw)
Water Activity	0.85	0.332



Pathogenic SAE (qPCR)

Specimen Weight: 220.700 mg

Passed
(qPCR)

Pieces For Panel: 30 Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Absence in 1g	E.Coli	1	Absence in 1g
			Salmonella	1	Absence in 1g



Total Yeast and Mold

Specimen Weight: 245.600 mg

Passed
(qPCR)

Pieces For Panel: 30 Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result
Total Yeast/Mold	100000	Passed

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1500 W Hampden Ave
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Batch # 4202542
Batch Date: 2021-02-03
Extracted From: Industrial Hemp

Sampling Method: MSP 7.3.1 Test Reg
State: Florida

Order # BAL210203-030023
Order Date: 2021-02-03
Sample # AAAY850

Sampling Date: 2021-02-08
Lab Batch Date: 2021-02-08
Completion Date: 2021-02-12

Initial Gross Weight: 36.679 g
Density: 0.967 g/ml



Product Image

- Potency**
Tested
- Heavy Metals**
Passed
- Mycotoxins**
Passed
- Pesticides**
Passed
- Residual Solvents**
Passed
- Water Activity**
Tested
- Pathogenic**
Passed
- Microbiology (qPCR)**
Passed

Potency - 11
Specimen Weight: 100.530 mg

Tested
(HPLC/LCMS)

Potency Summary

Total CBD 6.933%	Total THC None Detected
Total CBG 0.255%	Total CBN None Detected
Other Cannabinoids 0.069%	Total Cannabinoids 7.256%

Pieces For Panel: 30

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/ml)	(%)
CBD	10.000	0.000054	0.001	67.042	6.933
CBG	10.000	0.000248	0.001	2.462	0.255
CBDV	10.000	0.000065	0.001	0.469	0.049
CBC	10.000	0.000018	0.001	0.194	0.020
Delta-9 THC	10.000	0.000013	0.001	<LOQ	<LOQ
THCV	10.000	0.000007	0.001	<LOQ	<LOQ
Delta-8 THC	10.000	0.000026	0.001	<LOQ	<LOQ
CBN	10.000	0.000014	0.001	<LOQ	<LOQ
CBGA	10.000	0.00008	0.001	<LOQ	<LOQ
CBDA	10.000	0.00001	0.001	<LOQ	<LOQ
THCA-A	10.000	0.000032	0.001	<LOQ	<LOQ

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Batch Date: 2021-02-03
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Sampling Method: MSP 7.3.1 Test Reg
State: Florida

Order # BAL210203-030023
Order Date: 2021-02-03
Sample # AAAY850

Sampling Date: 2021-02-08
Lab Batch Date: 2021-02-08
Completion Date: 2021-02-12

Initial Gross Weight: 36.679 g
Density: 0.967 g/ml

H Heavy Metals

Specimen Weight: 246.500 mg

Passed
(ICP-MS)

Pieces For Panel: 30 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
Total Contaminant Load (TCL) None Detected							

Mycotoxins

Specimen Weight: 184.230 mg

Passed
(LCMS)

Pieces For Panel: 30 Dilution Factor: 8.142

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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CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

Balanced Health Botanicals
1500 W Hampden Ave
Sheridan, CO 80110

Batch # 4202542
Batch Date: 2021-02-03
Extracted From: Industrial Hemp

Sampling Method: MSP 7.3.1 Test Reg
State: Florida

Order # BAL210203-030023
Order Date: 2021-02-03
Sample # AAAY850

Sampling Date: 2021-02-08
Lab Batch Date: 2021-02-08
Completion Date: 2021-02-12

Initial Gross Weight: 36.679 g
Density: 0.967 g/ml



Pesticides FL V4

Specimen Weight: 184.230 mg

Passed
(LCMS/GCMS)

Pieces For Panel: 30 Dilution Factor: 8.142

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
Boscalid	10	3000	<LOQ	Captan	30	3000	<LOQ
Carbaryl	10	500	<LOQ	Carbofuran	10	100	<LOQ
Chlorantraniliprole	10	3000	<LOQ	Chlordane	10	100	<LOQ
Chlorfenapyr	30	100	<LOQ	Chloromequat Chloride	10	3000	<LOQ
Chlorpyrifos	30	100	<LOQ	Clofentezine	30	500	<LOQ
Coumaphos	48	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	48	3000	<LOQ
Ethiofoprofos	30	100	<LOQ	Etofenprox	30	100	<LOQ
Etoxazole	30	1500	<LOQ	Fenhexamid	10	3000	<LOQ
Fenoxycarb	30	100	<LOQ	Fenpyroximate	30	2000	<LOQ
Fipronil	30	100	<LOQ	Flonicamid	30	2000	<LOQ
Fludioxonil	48	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	methyl-Parathion	10	100	<LOQ
Mevinphos	10	100	<LOQ	Myclobutanil	30	3000	<LOQ
Naled	30	500	<LOQ	Oxamyl	30	500	<LOQ
Paclbutrazol	30	100	<LOQ	Pentachloronitrobenzene	10	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	10	3000	<LOQ	Spinosad	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	Total Contaminant Load (TCL)	None Detected		

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

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



Definitions and Abbreviations used in this report: *Total CBD = CBD + (CBD-A * 0.877), *Total THC = THCA-A * 0.877 + Delta 9 THC, *CBG Total = (CBGA * 0.877) + CBG, *CBN Total = (CBNA * 0.877) + CBN, *Other Cannabinoids Total = CBC + CBDV + THCV + THCV-A, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THCV + THCV-A, *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 = +/- 5%



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Balanced Health Botanicals
1500 W Hampden Ave
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Batch # 4202542
Batch Date: 2021-02-03
Extracted From: Industrial Hemp

Sampling Method: MSP 7.3.1 Test Reg
State: Florida

Order # BAL210203-030023
Order Date: 2021-02-03
Sample # AAAY850

Sampling Date: 2021-02-08
Lab Batch Date: 2021-02-08
Completion Date: 2021-02-12

Initial Gross Weight: 36.679 g
Density: 0.967 g/ml

Residual Solvents – FL/UT (BHB) **Passed**
(GCMS)

Specimen Weight: 13.100 mg

Pieces For Panel: 30 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-Dimethoxyethane	0.04	100	<LOQ
1,2-Dichloroethane	1.67	2	<LOQ	1,4-Dioxane	1.67	380	<LOQ
1-Butanol	1.67	5000	<LOQ	1-Pentanol	1.67	5000	<LOQ
1-Propanol	1.67	5000	<LOQ	2,2-dimethylbutane	1.67	290	<LOQ
2,3-dimethylbutane	1.67	290	<LOQ	2-Butanol	1.67	5000	<LOQ
2-Butanone	6.4	5000	<LOQ	2-Ethoxyethanol	1.67	160	<LOQ
2-methylbutane	1.67	5000	<LOQ	2-Methylpentane	1.67	290	<LOQ
2-Propanol (IPA)	1.67	5000	<LOQ	3-Methylpentane	1.67	290	<LOQ
Acetone	1.67	5000	<LOQ	Acetonitrile	0.02	410	<LOQ
Benzene	1.67	2	<LOQ	Butane	1.67	2000	<LOQ
Chloroform	0.04	60	<LOQ	Cumene	1.67	70	<LOQ
Cyclohexane	1.67	3880	<LOQ	Dichloromethane	1.67	600	<LOQ
Dimethyl sulfoxide	1.67	5000	<LOQ	Ethanol	1.67	5000	<LOQ
Ethyl Acetate	1.11	5000	<LOQ	Ethyl Ether	1.39	5000	<LOQ
Ethylene glycol	1.67	620	<LOQ	Ethylene Oxide	0.1	5	<LOQ
Heptane	1.67	5000	<LOQ	Heptane	1.67	5000	<LOQ
Hexane	1.17	290	<LOQ	Isopropyl acetate	1.67	5000	<LOQ
Isopropyl alcohol	1.67	500	<LOQ	Methanol	0.69	3000	<LOQ
Methylene chloride	2.43	600	<LOQ	Methylpropane	1.67	5000	<LOQ
N,N-dimethylacetamide	1.67	1090	<LOQ	N,N-dimethylformamide	1.67	880	<LOQ
Pentane	1.67	5000	<LOQ	Propane	1.67	2100	<LOQ
Pyridine	1.67	100	<LOQ	Sulfolane	1.67	160	<LOQ
Tetrahydrofuran	1.67	720	<LOQ	Toluene	1.67	890	<LOQ
Total Xylenes	1.67	1000	<LOQ	Trichloroethylene	0.49	80	<LOQ

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State: Florida

Order # BAL210203-030023
Order Date: 2021-02-03
Sample # AAAY850

Sampling Date: 2021-02-08
Lab Batch Date: 2021-02-08
Completion Date: 2021-02-12

Initial Gross Weight: 36.679 g
Density: 0.967 g/ml



Water Activity

Specimen Weight: 0.500 g

Tested
(Water Activity Analyzer)

Pieces For Panel: 30 Dilution Factor: 1.000

Analyte	Action Level (aw)	Result (aw)
Water Activity	0.85	0.338



Pathogenic SAE (qPCR)

Specimen Weight: 258.800 mg

Passed
(qPCR)

Pieces For Panel: 30 Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Absence in 1g	E.Coli	1	Absence in 1g
			Salmonella	1	Absence in 1g



Total Yeast and Mold

Specimen Weight: 245.900 mg

Passed
(qPCR)

Pieces For Panel: 30 Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result
Total Yeast/Mold	100000	Passed

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