Aromatic Plant Research Center
230 N 1200 E STE 100
Lehi, UT 84043
www.aromaticplant.org

Instrument Analysis Report

Potency

BATCH:092322G

Method: SOP 1-2026.01 | Sample Name: Grape | APRC Lot Number: RSL220928B

Cannabinoid	RT	Total %	Total mg/g
Cannabidivarin (CBDV)	ND	ND	ND
Cannabidiolic Acid (CBDA)	ND	ND	ND
Cannabigerolic Acid (CBGA)	ND	ND	ND
Cannabigerol (CBG)	3.08	0.01	0.08
Cannabidiol (CBD)	3.25	0.19	1.90
Tetrahydrocannabivarin (THCV)	ND	ND	ND
Cannabinol (CBN)	4.77	0.01	0.10
Δ9-Tetrahydrocannabidinol (Δ9-THC)	5.98	0.03	0.31
Δ8-Tetrahydrocannabidinol (Δ8-THC)	ND	ND	ND
Cannabichromene (CBC)	ND	ND	ND
Δ9-Tetrahydrocannabidinolic Acid (THCA-A)	ND	ND	ND

Performed by: Sujan Timsina

Reviewed by: Jordan Morley

	%	mg/g
Total Cannabinoids	0.24	2.39
Total THC[t]	0.03	0.31
Total CBD[s]	0.19	1.90

[t]Total Thc is calculated by Δ9-THC +(THCA-A*0.877)

[s]Total CBD is calculated by CBD + (CBDA*0.877)

LOD > 0.005% by mass, LOQ > 0.01% by mass

Approved By:
William A. Deutschman, Ph.D.
Laboratory Director - APRC Lehi
09/30/2022

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Instrument Analysis Report

Heavy Metals

BATCH:092322G

Method: CTLA | Sample Name: Grape | APRC Lot Number: OTC220824G

Analyte	Result (ppm)	LOD (ppm)	Threshold (ppm)	Pass/Fail
Arsenic	<0.001	0.001	2.00	Pass
Cadmium	<0.001	0.001	0.82	Pass
Lead	<0.001	0.001	1.20	Pass
Mercury	<0.001	0.001	0.40	Pass

Heavy metal analysis is completed in partnership with Contract Testing Laboratories of America, Orem UT.

Performed by: CTLA

Reviewed by: Jordan Morley

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Instrument Analysis Report

Microbial Impurities

BATCH:092322G

Method: SOP 1-2034.01 | Sample Name: Grape | APRC Lot Number: OTC220824G

Total Counts			
Microbial Group:	**Result (CFU/g):**	**Specification:**	**Disposition:**
Total Aerobic Bacteria	<10	Report Only	Report Only
Total Yeast and Mold	<10	Report Only	Report Only

Specific Organism Identification			
Microbial Organism:	**Result:**	**Specification:**	**Disposition:**
Aspergillus flavus	ND	Report Only	Not Detected
Aspergillus fumigatus	ND	Report Only	Not Detected
Aspergillus niger	ND	Report Only	Not Detected
Aspergillus terreus	ND	Report Only	Not Detected
Escherichia coli - Non shigella	ND	Report Only	Not Detected
Escherichia coli - Shigella spp	ND	Report Only	Not Detected
Listeria monocytogenes	ND	Report Only	Not Detected
Salmonella - Specific Gene	ND	Report Only	Not Detected
Staphylococcus aureus	ND	Report Only	Not Detected
Pseudomonas aeruginosa	ND	Report Only	Not Detected

Performed by: Jordan Morley

Notes: Foreign Matter: Not Detected. Mycotoxins: Not Detected.

Reviewed by: Riley Hunter

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Instrument Analysis Report

Pesticides

Method: BATCH:092322G
Sample Name: Grape
APRC Lot Number: OTC220824G

Pesticide:	Finding	Action Limit (µg/g)	Pass/Fail
Abamectin	ND	0.5	Pass
Acephate	ND	0.4	Pass
Acequinocyl	ND	2.0	Pass
Acetamiprid	ND	0.2	Pass
Aldicarb	ND	0.4	Pass
Azoxystrobin	ND	0.2	Pass
Bifenazate	ND	0.2	Pass
Bifenthrin	ND	0.2	Pass
Boscalid	ND	0.4	Pass
Carbaryl	ND	0.2	Pass
Carbofuran	ND	0.2	Pass
Chlorantraniliprole	ND	0.2	Pass
Chlorfenapyr	ND	1.0	Pass
Chlorpyrifos	ND	0.2	Pass
Clofentezine	ND	0.2	Pass
Cyfluthrin	ND	1.0	Pass
Cypermethrin	ND	1.0	Pass
Daminozide	ND	1.0	Pass
Dichlorvos	ND	0.1	Pass
Diazinon	ND	0.2	Pass
Dimethoate	ND	0.2	Pass
Ethoprophos	ND	0.2	Pass
Etofenprox	ND	0.4	Pass
Etoxazole	ND	0.2	Pass
Fenoxycarb	ND	0.2	Pass
Fenpyroximate	ND	0.4	Pass
Fipronil	ND	0.4	Pass
Flonicamid	ND	1.0	Pass
Fludioxonil	ND	0.4	Pass

Pesticide:	Finding	Action Limit (µg/g)	Pass/Fail
Hexythiazon	ND	1.0	Pass
Imazal	ND	0.2	Pass
Imidacloprid	ND	0.4	Pass
Kresoxim-methyl	ND	0.4	Pass
Malathion A	ND	0.2	Pass
Metalaxyl	ND	0.2	Pass
Methiocarb	ND	0.2	Pass
Methomyl	ND	0.4	Pass
Methylparathion	ND	0.2	Pass
MGK-264	ND	0.2	Pass
Myclobutanil	ND	0.2	Pass
Naled	ND	0.5	Pass
Oxamyl	ND	1.0	Pass
Paclobutrazol	ND	0.4	Pass
Permethrins	ND	0.2	Pass
Phosmet	ND	0.2	Pass
Piperonylbutoxide	ND	2.0	Pass
Prallethrin	ND	0.2	Pass
Propiconazole	ND	0.4	Pass
Propoxur	ND	0.2	Pass
Pyrethrin	ND	1.0	Pass
Pyridaben	ND	0.2	Pass
Spinosad	ND	0.2	Pass
Spinetoram	ND	0.1	Pass
Spirotetramat	ND	0.2	Pass
Spiroxamine	ND	0.4	Pass
Tebuconazole	ND	0.4	Pass
Thiacloprid	ND	0.2	Pass
Thiamethoxam	ND	0.2	Pass
Trifloxystrobin	ND	0.2	Pass

Performed by: Noura Ahmed
Reviewed by: Prabodh Satyal

Pesticide testing performed in a non-ISO 17025:2017 accredited facility.

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Instrument Analysis Report

Residual Solvents

BATCH:092322G

Method: SOP 1-2027.02 | Sample Name: Grape | APRC Lot Number: OTC220824G

Residual Solvent	Finding (µg/g)	Action Level (µg/g)	Pass/Fail
Dimethyl sulfoxide	ND	5000	Pass
N,N-dimethylacetamide	ND	1090	Pass
1,2 Dimethoxyethane	ND	100	Pass
1,4 Dioxane	ND	380	Pass
1-Butanol	ND	5000	Pass
1-Pentanol	ND	5000	Pass
1-Propanol	ND	5000	Pass
2-Butanone	ND	5000	Pass
2-Butanol	ND	5000	Pass
2-Ethoxyethanol	ND	160	Pass
2-Methylbutane	ND	5000	Pass
2-Propanol	ND	5000	Pass
Acetone	ND	5000	Pass
Acetonitrile	ND	410	Pass
Benzene	ND	2	Pass
Butane	ND	5000	Pass
Cumene	ND	70	Pass
Cyclohexane	ND	3880	Pass
Dichloromethane	ND	600	Pass
2,2-Dimethylbutane	ND	290	Pass
2,3-Dimethylbutane	ND	290	Pass
m,p-Xylene	ND	See Total Xylenes	Pass
o-Xylene	ND	See Total Xylenes	Pass
Ethanol	58.351	5000	Pass
Ethyl Acetate	31.481	5000	Pass
Ethyl Benzene	ND	See Total Xylenes	Pass
Ethyl Ether	ND	5000	Pass
Ethylene Glycol	ND	620	Pass
Ethylene Oxide	ND	50	Pass

Residual Solvent	Finding (µg/g)	Action Level (µg/g)	Pass/Fail
Heptane	ND	5000	Pass
Hexane	ND	290	Pass
Isopropyl Acetate	ND	5000	Pass
Methanol	6.456	3000	Pass
Methylpropane	ND	5000	Pass
2-Methylpentane	ND	290	Pass
3-Methylpentane	ND	290	Pass
N,N-Dimethylformamide	ND	880	Pass
Pentane	ND	5000	Pass
Propane	ND	5000	Pass
Pyridine	ND	100	Pass
Sulfolane	ND	160	Pass
Tetrahydrofuran	ND	720	Pass
Toluene	ND	890	Pass
Total Xylenes	ND	2170	Pass

† Per Utah state code 4-41a-701(3) Section R68-29-6
‡ Total Xylenes is a combination of the following: o-Xylene, m-Xylene, p-Xylene, and Ethylbenzene

Overall Disposition: Pass
Performed By: Anil Rokaya
Reviewed By: Spencer Kipfmueller

Approved By:
William A. Deutschman, Ph.D.
Laboratory Director - APRC Lehi
08/30/2022