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

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Comprehensive Analysis Report

Sample Overview

Client: Intrepid BioSciences
None

Sample Name: Sleep Tincture Orange

Sample Matrix: Tincture

Sample Lot: IM22048

Date Received: 04/06/2022

APRC #: RMH220407AG

Assay	Disposition	Date Tested
Cannabinoid Testing	Tested	04-08-2022
Heavy Metals - Utah State Cannabis Panel	Tested	04-13-2022
Microbial Impurities	Tested	04-13-2022
Pesticide Screen (APRC Panel)	Tested	04-08-2022
Residual Solvents	Tested	04-12-2022

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Instrument Analysis Report

Potency

Method: SOP 1-2026.01 Sample Name: Sleep Tincture Orange APRC Lot Number: RMH220407AG

Cannabinoid	RT	Total %	Total mg/g
Cannabidivarin (CBDV)	2.27	0.82	8.20
Cannabidiolic Acid (CBDA)	ND	ND	ND
Cannabigerolic Acid (CBGA)	ND	ND	ND
Cannabigerol (CBG)	3.16	0.67	6.67
Cannabidiol (CBD)	3.34	8.27	82.69
Tetrahydrocannabivarin (THCV)	3.63	0.04	0.35
Cannabinol (CBN)	INT	INT	INT
Δ9-Tetrahydrocannabidinol (Δ9-THC)	6.22	0.09	0.93
Δ8-Tetrahydrocannabidinol (Δ8-THC)	ND	ND	ND
Cannabichromene (CBC)	7.81	0.10	0.96
Δ9-Tetrahydrocannabidinolic Acid (THCA-A)	ND	ND	ND

Performed by: Sujan Timsina

Reviewed by: Spencer Kipfmueller

	%	mg/g
Total Cannabinoids	9.98	99.80
Total THC[t]	0.09	0.93
Total CBD[s]	8.27	82.69

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

Notes: INT: Compound could not be quantified due to interfering substance

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Instrument Analysis Report

Heavy Metals

Method: CTLA Sample Name: Sleep Tincture Orange APRC Lot Number: RMH220407AG

Analyte	Result (ppm)	LOD (ppm)	Threshold (ppm)	Pass/Fail
Arsenic	0.002	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: William Deutschman

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Instrument Analysis Report

Microbial Impurities

Method: 1-2034.01 Sample Name: Sleep Tincture Orange APRC Lot Number: RMH220407AG

Total Counts			
Microbial Group:	**Result:**	**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	Report Only
Aspergillus fumigatus	ND	Report Only	Report Only
Aspergillus niger	ND	Report Only	Report Only
Aspergillus terreus	ND	Report Only	Report Only
Escherichia coli - Non shigella	ND	Report Only	Report Only
Escherichia coli - Shigella spp	ND	Report Only	Report Only
Listeria monocytogenes	ND	Report Only	Report Only
Salmonella - Specific Gene	ND	Report Only	Report Only
Staphylococcus aureus	ND	Report Only	Report Only
Pseudomonas aeruginosa	ND	Report Only	Report Only

Performed by: Jordan Morley Notes: Foreign Matter: ND

Reviewed by: Riley Hunter

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Instrument Analysis Report

Pesticides

Method: Sample Name: Sleep Tincture Orange APRC Lot Number: RMH220407AG

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 Dosoky Reviewed by: Prabodh Satyal

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Instrument Analysis Report

Residual Solvents

Method: 1-2027.02 Sample Name: Sleep Tincture Orange APRC Lot Number: RMH220407AG

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	64.090	5000	Pass
Acetone	ND	5000	Pass
Acetonitrile	21.426	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	ND	5000	Pass
Ethyl Acetate	ND	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	ND	3000	Pass
Methylpropane	ND	5000	Pass
2-Methylpentane	ND	290	Pass
3-Methylpentane	ND	290	Pass
N,N-Dimethylformamide	ND	880	Pass
Pentane	80.292	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: Riley Hunter

Approved By:
William A. Deutschman, Ph.D.
Laboratory Director - APRC Lehi
04/15/2022

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