



CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 02

DATE: 09/07/2022

Analysis ID No. 223494
 TDA License No. 2020002
 ISO/IEC No. 1055838
 Customer No. N/A
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CUSTOMER INFORMATION	CUSTOMER SAMPLE INFORMATION
Company Name:	Submitted Sample Name:
Joggy Energy, LLC	Joggy Runner's High Drops, Unflavored
Address:	Submitted Sample Lot/Expiration:
4764 E Sunrise Dr, Unit 464, Tucson, AZ 85718	220824-1 Expiration: OCT 2024
Phone Number:	Submitted Sample Description:
1-218-209-2618	Water-Based Hemp CBD Product In Dropper Bottle
Contact Name / Email:	Submitted Sample Product Type / Matrix:
hello@getjoggy.com	Food, Edible / Aqueous

LABEL CLAIM					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
CBD	UHPLC-DAD	0.002 w/w%	mg/g: Report Only mg/mL: 17.0 – 18.7 mg/mL* mg/Bottle: NLT 500 mg/Bottle**	17.987 mg/g 17.969 mg/mL 539.07 mg/Bottle	PASS
CBD	UHPLC-DAD	0.002 w/w%	% Label Claim: 90.0 to 110.0% Target: 100%	107.8%	PASS

* Density = 0.999 mg/mL , ** Unit Volume: 30.0 mL

LABEL CLAIM					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
THCv	UHPLC-DAD	0.002 w/w%	mg/g: Report Only mg/mL: 5.0 – 5.5 mg/mL* mg/Bottle: NLT 150 mg/Bottle**	5.071 mg/g 5.066 mg/mL 152.0 mg/Bottle	PASS
THCv	UHPLC-DAD	0.002 w/w%	% Label Claim: 90.0 to 110.0% Target: 100%	101.3%	PASS

* Density = 0.999 mg/mL , ** Unit Volume: 30.0 mL

TOTAL THC ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Δ 9-THC	UHPLC-DAD	0.002 w/w%	w/w%: NMT 0.30 mg/g: NMT 3.0 (Δ 9-THC States Only)	< 0.002 w/w%	Results Reported
THCa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported
Total THC	UHPLC-DAD	0.002 w/w%	w/w%: NMT 0.30 mg/g: NMT 3.0	< 0.002 w/w%	PASS

Total Potential THC = (THC-A x 0.877) + (Δ 9-THC)

CANNABINOIDS ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
CBD	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	1.799 w/w% 17.987 mg/g	Results Reported
CBDa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported
Δ 9-THC	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported

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CANNABINOIDS ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Δ8-THC	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported
Exo-THC	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported
THCa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported
CBG	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.070 w/w% 0.701 mg/g	Results Reported
CBGa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported
CBN	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.074 w/w% 0.737 mg/g	Results Reported
CBNa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported
CBC	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.059 w/w% 0.593 mg/g	Results Reported
CBCa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported
CBL	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported
CBDV	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.008 w/w% 0.078 mg/g	Results Reported
CBDVa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported
THCV	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.507 w/w% 5.071 mg/g	Results Reported
THCVa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported
Total Cannabinoids	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	2.517 w/w% 25.166 mg/g	Results Reported

HEAVY METALS ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / No Pass
Lead	ICP-MS	10 ppb	NMT 1000 ppb	< LOQ	PASS
Mercury	ICP-MS	5 ppb	NMT 500 ppb	< LOQ	PASS
Arsenic	ICP-MS	10 ppb	NMT 1500 ppb	< LOQ	PASS
Cadmium	ICP-MS	10 ppb	NMT 300 ppb	< LOQ	PASS

RESIDUAL SOLVENTS ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / No Pass
1,1-Dichloroethene	GC-MS	0.4 ppm	NMT 8 ppm	< LOQ	PASS
1,1,1-Trichloroethane	GC-MS	75 ppm	NMT 1500 ppm	< LOQ	PASS
1,2-Dichloroethane	GC-MS	0.25 ppm	NMT 5 ppm	< LOQ	PASS

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Benzene	GC-MS	0.1 ppm	NMT 2 ppm	< LOQ	PASS
Carbon tetrachloride	GC-MS	0.2 ppm	NMT 4 ppm	< LOQ	PASS
1,2-dichloroethene (E,Z)	GC-MS	93.5 ppm	NMT 1870 ppm	< LOQ	PASS
1,2-Dimethoxyethane	GC-MS	5 ppm	NMT 100 ppm	< LOQ	PASS
1,2,3,4-tetrahydronaphthalene	GC-MS	5 ppm	NMT 100 ppm	< LOQ	PASS
1,4-Dioxane	GC-MS	19 ppm	NMT 380 ppm	< LOQ	PASS
2-Hexanone	GC-MS	2.5 ppm	NMT 50 ppm	< LOQ	PASS
4-methyl-2-pentanone	GC-MS	225 ppm	NMT 4500 ppm	< LOQ	PASS
Acetonitrile	GC-MS	20.5 ppm	NMT 410 ppm	< LOQ	PASS
Chlorobenzene	GC-MS	18 ppm	NMT 360 ppm	< LOQ	PASS
Chloroform	GC-MS	3 ppm	NMT 60 ppm	< LOQ	PASS
Cumene	GC-MS	3.5 ppm	NMT 70 ppm	< LOQ	PASS
Cyclohexane	GC-MS	194 ppm	NMT 3880 ppm	< LOQ	PASS
Dichloromethane	GC-MS	30 ppm	NMT 600 ppm	< LOQ	PASS
Ethylbenzene	GC-MS	108.5 ppm	NMT 2170 ppm	< LOQ	PASS
Hexane, n-	GC-MS	14.5 ppm	NMT 290 ppm	< LOQ	PASS
Methanol	GC-MS	150 ppm	NMT 3000 ppm	< LOQ	PASS
Methylcyclohexane	GC-MS	59 ppm	NMT 1180 ppm	< LOQ	PASS
Nitromethane	GC-MS	2.5 ppm	NMT 50 ppm	< LOQ	PASS
Pyridine	GC-MS	10 ppm	NMT 200 ppm	< LOQ	PASS
Sulfolane	GC-MS	8 ppm	NMT 160 ppm	< LOQ	PASS
Tetrahydrofuran	GC-MS	36 ppm	NMT 720 ppm	< LOQ	PASS
Toluene	GC-MS	44.5 ppm	NMT 890 ppm	< LOQ	PASS
Trichloroethene	GC-MS	4 ppm	NMT 80 ppm	< LOQ	PASS
Xylene, m-	GC-MS	108.5 ppm	NMT 2170 ppm	< LOQ	PASS
Xylene, o-	GC-MS	108.5 ppm	NMT 2170 ppm	< LOQ	PASS
Xylene, p-	GC-MS	108.5 ppm	NMT 2170 ppm	< LOQ	PASS



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1-Butanol	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
1-Pentanol	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
1-Propanol	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
2-Butanol	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
2-Butanone	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
2-methyl-1-propanol	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
2-Propanol	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
3-methyl-1-butanol	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Acetone	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Anisole	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Butyl acetate	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Ethanol	GC-MS	250 ppm	NMT 5000 ppm	1,878.53 ppm	PASS
Ethyl acetate	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Ethyl ether	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Ethyl formate	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Heptane, n-	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Isobutyl acetate	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Isopropyl acetate	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Methyl acetate	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
N,N-Dimethylsulfoxide	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Pentane, n-	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Propyl acetate	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
t-Butyl Methyl Ether	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Triethylamine	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Butane, iso-	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Butane, n-	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS
Propane	GC-MS	250 ppm	NMT 5000 ppm	< LOQ	PASS



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1,1-Dichloroethene	GC-MS	0.4 ppm	NMT 8 ppm	< LOQ	PASS
1,1,1-Trichloroethane	GC-MS	75 ppm	NMT 1500 ppm	< LOQ	PASS

PESTICIDES ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Acetamiprid	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.200 ppm	< LOQ	PASS
Aldicarb	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.400 ppm	< LOQ	PASS
Azoxystrobin	LC-MS/MS & GC-MS/MS	0.010 ppm	NMT 0.200 ppm	< LOQ	PASS
Bifenazate	LC-MS/MS & GC-MS/MS	0.005 ppm	NMT 0.200 ppm	< LOQ	PASS
Boscalid	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.200 ppm	< LOQ	PASS
Carbaryl (Sevin)	LC-MS/MS & GC-MS/MS	0.100 ppm	NMT 0.500 ppm	< LOQ	PASS
Carbofuran	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.200 ppm	< LOQ	PASS
Chlorantraniliprole	LC-MS/MS & GC-MS/MS	0.100 ppm	NMT 0.200 ppm	< LOQ	PASS
Chlorpyrifos	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.600 ppm	< LOQ	PASS
Cypermethrin	LC-MS/MS & GC-MS/MS	0.025 ppm	NMT 18.0 ppm	< LOQ	PASS
Diazinon	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 2.600 ppm	< LOQ	PASS
Dichlorvos	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.100 ppm	< LOQ	PASS
Ethoprophos (Prophos)	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.400 ppm	< LOQ	PASS
Etofenprox	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.400 ppm	< LOQ	PASS
Fipronil	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 1.000 ppm	< LOQ	PASS
Flonicamid	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 1.000 ppm	< LOQ	PASS
Imidacloprid	LC-MS/MS & GC-MS/MS	0.005 ppm	NMT 0.400 ppm	< LOQ	PASS
Metalaxyl	LC-MS/MS & GC-MS/MS	0.100 ppm	NMT 0.200 ppm	< LOQ	PASS
Methiocarb	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.400 ppm	< LOQ	PASS
Methomyl	LC-MS/MS & GC-MS/MS	0.200 ppm	NMT 0.400 ppm	< LOQ	PASS
Methyl parathion	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 8.500 ppm	< LOQ	PASS
Myclobutanil	LC-MS/MS & GC-MS/MS	0.005 ppm	NMT 0.300 ppm	< LOQ	PASS
Oxamyl	LC-MS/MS & GC-MS/MS	0.250 ppm	NMT 1.000 ppm	< LOQ	PASS

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PESTICIDES ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Permethrin (mix of isomers)	LC-MS/MS & GC-MS/MS	0.020 ppm	NMT 1.100 ppm	< LOQ	PASS
Pyridaben	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.200 ppm	< LOQ	PASS
Spiroxamine	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 2.000 ppm	< LOQ	PASS
Tebuconazole	LC-MS/MS & GC-MS/MS	0.005 ppm	NMT 0.400 ppm	< LOQ	PASS
Thiacloprid	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.200 ppm	< LOQ	PASS
Thiamethoxam	LC-MS/MS & GC-MS/MS	0.025 ppm	NMT 0.200 ppm	< LOQ	PASS

MYCOTOXINS ASSAY (TEXAS)					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Total Aflatoxins	LC-MS/MS	5 ppb	NMT 20 ppb (20 mcg/mL)	< LOQ	PASS
Aflatoxin B1	LC-MS/MS	5 ppb	Report Only	< LOQ	Results Reported
Aflatoxin B2	LC-MS/MS	5 ppb	Report Only	< LOQ	Results Reported
Aflatoxin G1	LC-MS/MS	5 ppb	Report Only	< LOQ	Results Reported
Aflatoxin G2	LC-MS/MS	5 ppb	Report Only	< LOQ	Results Reported
Ochratoxin A	LC-MS/MS	5 ppb	Report Only	< LOQ	Results Reported

TERPENES ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
α - Pinene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	1.556 w/w% 15.565 mg/g	Results Reported
Camphene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.019 w/w% 0.190 mg/g	Results Reported
β - Myrcene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.011 w/w% 0.112 mg/g	Results Reported
β - Pinene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
3 - Carene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
α - Terpinene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
E - Ocimene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
δ - Limonene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
p - Cymene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Z - Ocimene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported

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TERPENES ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Eucalyptol	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
γ – Terpinene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Terpinolene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Linalool	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Isopulegol	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Geraniol	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
β – Caryophyllene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Humulene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Cis – Nerolidol	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Trans – Nerolidol	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
α – Guaiol	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Caryophyllene Oxide	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
α - Bisabolol	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported

MICROBIOLOGICAL ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Total Aerobic Plate Count (TAPC)	Isolation Agar	10 CFU/gm	NMT 1,000 CFU/gm	< LOQ	PASS
Total Yeast & Mold (TYM)	Isolation Agar	10 CFU/gm	NMT 100 CFU/gm	< LOQ	PASS
Escherichia coli (E. coli)	Isolation Agar	1 CFU/gm	Absent	Absent	PASS
Campylobacter	Isolation Agar	1 CFU/gm	Absent	Absent	PASS
Listeria Monocytogenes	Isolation Agar	1 CFU/gm	Absent	Absent	PASS
Salmonella	Isolation Agar	1 CFU/gm	Absent	Absent	PASS
Shiga-Toxin E.coli (STEC)	Isolation Agar	1 CFU/gm	Absent	Absent	PASS
Staphylococcus aureus	Isolation Agar	1 CFU/gm	Absent	Absent	PASS
Yersinia	Isolation Agar	1 CFU/gm	Absent	Absent	PASS



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ASPERGILLUS ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Aspergillus flavus	RT-PCR	1 CFU/g	Absent	Absent	PASS
Aspergillus fumigatus	RT-PCR	1 CFU/g	Absent	Absent	PASS
Aspergillus niger	RT-PCR	1 CFU/g	Absent	Absent	PASS
Aspergillus terreus	RT-PCR	1 CFU/g	Absent	Absent	PASS

PARTICLE SIZE DISTRIBUTION					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
D90 (Particle Size)	Dynamic Light Scattering	0.3 nm	Report Only	125.7 nm	Results Reported
Polydispersity Index (PDI)	Dynamic Light Scattering	0.000 – 1.000	Report Only	0.183	Results Reported

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	Santé Sample ID: 223494 Receipt Date: 08/15/2022 Receipt Condition: Good Analysis Start Date: 08/15/2022

ADDITIONAL REPORT NOTES
The reported results presented in this document is only applicable to samples submitted to Santé Laboratories for testing and may not represent the entire lot and/or batch produced by the manufacturer. ©2020 Santé Laboratories, LLC – All Rights Reserved

VERSION HISTORY		
Version	Effective Date	Summary of Changes
00	08/31/2022	Initial Release
01	09/06/2022	Updated Customer Information section
02	09/07/2022	Added expiration date

REVIEWED AND APPROVED BY	
<p>DocuSigned by:</p> <p><i>Christopher Rodriguez</i></p> <p>D0DEA5AC538141A...</p> <p>Christopher Rodriguez Director Quality Assurance Santé Laboratories</p>	<p>07 September 2022 5:27:31 PM CDT</p> <p>DD-MM-YY</p> <p>_____</p> <p>Date</p>