



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 03

DATE: 09/07/2022

Analysis ID No. 220608  
 TDA License No. 2020002  
 ISO/IEC No. 1055838  
 Customer No. N/A  
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CUSTOMER INFORMATION	CUSTOMER SAMPLE INFORMATION
<b>Company Name:</b>	<b>Submitted Sample Name:</b>
Joggy Energy LLC	Joggy Runner's High Drops, Unflavored
<b>Address:</b>	<b>Submitted Sample Lot:</b>
4764 E Sunrise Dr, Unit #464, Tucson, AZ 85718	220125-1 EXP MAR 2023
<b>Phone Number:</b>	<b>Submitted Sample Description:</b>
1-218-209-2618	Water-Based Hemp CBD Product In Dropper Bottle
<b>Contact Name / Email:</b>	<b>Submitted Sample Product Type / Matrix:</b>
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**	18.085 mg/g 17.976 mg/mL 539.28 mg/Bottle	PASS
CBD	UHPLC-DAD	0.002 w/w%	% Label Claim: 90.0 to 110.0% Target: 100%	107.8%	PASS

\* Density = 0.994 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**	5.077 mg/g 5.046 mg/mL 153.75 mg/Bottle	PASS
THCv	UHPLC-DAD	0.002 w/w%	% Label Claim: 90.0 to 110.0% Target: 100%	102.5%	PASS

\* Density = 0.994 mg/mL , \*\* Unit Volume: 30.0 mL

TOTAL THC ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
$\Delta^9$ -THC	UHPLC-DAD	0.002 w/w%	w/w%: NMT 0.30 mg/g: NMT 3.0 ( $\Delta^9$ -THC States Only)	0.008 w/w% 0.078 mg/g	Results Reported
THCa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Total THC	UHPLC-DAD	0.002 w/w%	w/w%: NMT 0.30 mg/g: NMT 3.0	0.008 w/w% 0.078 mg/g	PASS

Total Potential THC = (THC-A x 0.877) + ( $\Delta^9$ -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	1.809 w/w% 18.085 mg/g	Results Reported
CBDa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
$\Delta^9$ -THC	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.008 w/w% 0.078 mg/g	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	< LOQ	Results Reported
Exo-THC	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
THCa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
CBG	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.074 w/w% 0.738 mg/g	Results Reported
CBGa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
CBN	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.073 w/w% 0.730 mg/g	Results Reported
CBNa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
CBC	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.066 w/w% 0.658 mg/g	Results Reported
CBCa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
CBL	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
CBDV	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.006 w/w% 0.064 mg/g	Results Reported
CBDVa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
THCV	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.508 w/w% 5.077 mg/g	Results Reported
THCVa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Total Cannabinoids	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	2.544 w/w% 25.430 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



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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
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

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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
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	1,314.96 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



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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
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 (TEXAS)

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
Fonicamid	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

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PESTICIDES ASSAY (TEXAS)					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
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
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
$\alpha$ - Pinene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	1.010 w/w% 10.096 mg/g	Results Reported
Camphene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
$\beta$ - Myrcene	GC-FID	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
$\beta$ - 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
$\alpha$ - Terpinene	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
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
Eucaluptol	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	0.060 w/w% 0.597 mg/g	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

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MICROBIOLOGICAL ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Staphylococcus aureus	Isolation Agar	1 CFU/gm	Absent	Absent	PASS
Yersinia	Isolation Agar	1 CFU/gm	Absent	Absent	PASS

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
Z-Average (Particle Size)	Dynamic Light Scattering	0.3 nm	Report Only	105.9 nm	Results Reported
Polydispersity Index (PDI)	Dynamic Light Scattering	0.000 – 1.000	Report Only	0.088	Results Reported
D90 (Particle Size)	Dynamic Light Scattering	0.3 nm	Report Only	183.0 nm	Results Reported

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	Santé Sample ID: 220608 Receipt Date: 02/14/2022 Receipt Condition: Good Analysis Start Date: 02/14/2022

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	03/03/2022	Initial Release
01	03/30/2022	Adding sample expiration date
02	04/08/2022	Revising Client Name, Address, Phone, and E-mail
03	09/07/2022	Expiration under revision





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## REVIEWED AND APPROVED BY

DocuSigned by:

*Brian Sloat*

Brian Sloat, Ph.D.

Chief Scientific Officer / Quality Manager  
Santé Laboratories

07 September 2022 | 11:42:21 AM PDT

DD-MM-YY

Date

## PRODUCT SAMPLE / IMAGE

