



CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 03/16/2021

Analysis ID No. 210667
 TDA License No. 2020002
 ISO/IEC No. 1055838
 Customer No. 20210195
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CUSTOMER INFORMATION	SAMPLE INFORMATION
Company Name:	Submitted Sample Name:
Medterra CBD	Medterra 50 mg Full Spectrum Liquid Capsule, 60 count
Address:	Submitted Sample Lot:
9805 Research Dr; Irvine, California 92618 USA	50718
Phone Number:	Submitted Sample Description:
562-229-8324	Yellow Liquid Capsules in Sealed, Clear, Pouch; Stored at RT
Contact Name / Email:	Submitted Sample Product Type / Matrix:
Raquel Garza / raquel.garza@medterracbd.com	Hemp Extract / Capsules

TOTAL THC ASSAY (COMPLIANCE, USDA)							
Analysis	Test Method	LOQ	Specifications	Test Results			Pass / Fail
Δ9-THC	UHPLC-DAD	0.002 w/w%	w/w%: NMT 0.300 mg/g; NMT 3.00 (Δ9-THC States Only)	Replicate 1	Replicate 2	Average	PASS
				0.192 w/w% 1.916 mg/g	0.191 w/w% 1.910 mg/g	0.191 w/w% 1.913 mg/g	
THCa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	Replicate 1	Replicate 2	Average	Results Reported
				< LOQ	< LOQ	< LOQ	
Total THC	UHPLC-DAD	0.002 w/w%	w/w%: NMT 0.300 mg/g; NMT 3.00	Replicate 1	Replicate 2	Average	PASS
				0.192 w/w% 1.916 mg/g	0.191 w/w% 1.910 mg/g	0.191 w/w% 1.913 mg/g	
Measurement Uncertainty (MU) = 0.02% at 0.3% THC				Total Potential THC = (THCa x 0.877)+ (Δ9-THC)			

CBD LABEL CLAIM							
Analysis	Test Method	LOQ	Specifications	Test Results			Pass / Fail
CBD	UHPLC-DAD	0.002 w/w%	mg/dose: Report Only Target: 50 mg/unit	Replicate 1	Replicate 2	Average	Results Reported
				47.880 mg/unit	48.490 mg/unit	48.185 mg/unit	
CBD	UHPLC-DAD	0.002 w/w%	% Label Claim: 90.0 to 110.0% Target: 100%	Replicate 1	Replicate 2	Average	PASS
				95.8%	97.0%	96.4%	
Provided Unit Weight = 0.450 grams							

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	5.354 w/w% 53.539 mg/g	Results Reported	
CBDa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported	
Δ9-THC	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.191 w/w% 1.913 mg/g	Results Reported	
Δ8-THC	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.010 w/w% 0.101 mg/g	Results Reported	
Exo-THC	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.012 w/w% 0.123 mg/g	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	0.536 w/w% 5.357 mg/g	Results Reported	



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CANNABINOIDS ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results*	Pass / Fail
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	0.100 w/w% 1.001 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	0.217 w/w% 2.173 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	0.012 w/w% 0.123 mg/g	Results Reported
CBDV	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.023 w/w% 0.233 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	0.003 w/w% 0.026 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	6.459 w/w% 64.589 mg/g	Results Reported

HEAVY METAL ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Lead	ICP-MS	10 ppb	NMT 1000 ppb	< LOQ	PASS
Mercury	ICP-MS	5 ppb	NMT 500 ppb	< LOQ	PASS
Cadmium	ICP-MS	10 ppb	NMT 300 ppb	< LOQ	PASS
Arsenic	ICP-MS	10 ppb	NMT 1500 ppb	< LOQ	PASS

RESIDUAL SOLVENTS ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
1,1-Dichloroethene	USP <467> by GC-MS	0.4 ppm	NMT 8 ppm	< LOQ	PASS
1,1,1-Trichloroethane	USP <467> by GC-MS	75 ppm	NMT 1,500 ppm	< LOQ	PASS
1,2-Dichloroethane	USP <467> by GC-MS	0.25 ppm	NMT 5 ppm	< LOQ	PASS
Benzene	USP <467> by GC-MS	0.1 ppm	NMT 2 ppm	< LOQ	PASS
Carbon tetrachloride	USP <467> by GC-MS	0.2 ppm	NMT 4 ppm	< LOQ	PASS
1,2-dichloroethene (E,Z)	USP <467> by GC-MS	93.5 ppm	NMT 1870 ppm	< LOQ	PASS
1,2-Dimethoxyethane	USP <467> by GC-MS	5 ppm	NMT 100 ppm	< LOQ	PASS

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1,2,3,4-tetrahydronaphthalene	USP <467> by GC-MS	5 ppm	NMT 100 ppm	< LOQ	PASS
1,4-Dioxane	USP <467> by GC-MS	19 ppm	NMT 380 ppm	< LOQ	PASS
2-Hexanone	USP <467> by GC-MS	2.5 ppm	NMT 50 ppm	< LOQ	PASS
4-methyl-2-pentanone	USP <467> by GC-MS	225 ppm	NMT 4,500 ppm	< LOQ	PASS
Acetonitrile	USP <467> by GC-MS	20.5 ppm	NMT 410 ppm	< LOQ	PASS
Chlorobenzene	USP <467> by GC-MS	18 ppm	NMT 360 ppm	< LOQ	PASS
Chloroform	USP <467> by GC-MS	3 ppm	NMT 60 ppm	< LOQ	PASS
Cumene	USP <467> by GC-MS	3.5 ppm	NMT 70 ppm	< LOQ	PASS
Cyclohexane	USP <467> by GC-MS	194 ppm	NMT 3,880 ppm	< LOQ	PASS
Dichloromethane	USP <467> by GC-MS	30 ppm	NMT 600 ppm	< LOQ	PASS
Ethylbenzene	USP <467> by GC-MS	108.5 ppm	NMT 2,170 ppm	< LOQ	PASS
Hexane, n-	USP <467> by GC-MS	14.5 ppm	NMT 290 ppm	< LOQ	PASS
Methanol	USP <467> by GC-MS	150 ppm	NMT 3,000 ppm	< LOQ	PASS
Methylcyclohexane	USP <467> by GC-MS	59 ppm	NMT 1,180 ppm	< LOQ	PASS
Nitromethane	USP <467> by GC-MS	2.5 ppm	NMT 50 ppm	< LOQ	PASS
Pyridine	USP <467> by GC-MS	10 ppm	NMT 200 ppm	< LOQ	PASS
Sulfolane	USP <467> by GC-MS	8 ppm	NMT 160 ppm	< LOQ	PASS
Tetrahydrofuran	USP <467> by GC-MS	36 ppm	NMT 720 ppm	< LOQ	PASS
Toluene	USP <467> by GC-MS	44.5 ppm	NMT 890 ppm	< LOQ	PASS
Trichloroethene	USP <467> by GC-MS	4 ppm	NMT 80 ppm	< LOQ	PASS
Xylene, m-	USP <467> by GC-MS	108.5 ppm	NMT 2,170 ppm	< LOQ	PASS
Xylene, o-	USP <467> by GC-MS	108.5 ppm	NMT 2,170 ppm	< LOQ	PASS
Xylene, p-	USP <467> by GC-MS	108.5 ppm	NMT 2,170 ppm	< LOQ	PASS
1-Butanol	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
1-Pentanol	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
1-Propanol	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
2-Butanol	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS

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2-Butanone	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
2-methyl-1-propanol	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
2-Propanol	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
3-methyl-1-butanol	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Acetone	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Anisole	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Butyl acetate	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Ethanol	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	985.9 ppm	PASS
Ethyl acetate	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Ethyl ether	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Ethyl formate	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Heptane, n-	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Isobutyl acetate	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Isopropyl acetate	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Methyl acetate	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
N,N-Dimethylsulfoxide	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Pentane, n-	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Propyl acetate	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
t-Butyl Methyl Ether	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Triethylamine	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Butane, iso-	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Butane, n-	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Propane	USP <467> by GC-MS	250 ppm	NMT 5,000 ppm	< LOQ	PASS
1,1-Dichloroethene	USP <467> by GC-MS	0.4 ppm	NMT 8 ppm	< LOQ	PASS
1,1,1-Trichloroethane	USP <467> by GC-MS	75 ppm	NMT 1,500 ppm	< LOQ	PASS



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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

TERPENES ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results*	Pass / Fail
α - Pinene	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Camphene	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
β - Myrcene	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
β - Pinene	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
3 - Carene	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
α - Terpinene	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
E - Ocimene	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
δ - Limonene	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
p - Cymene	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Z - Ocimene	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Eucalyptol	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
γ - Terpinene	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Terpinolene	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Linalool	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Isopulegol	GC-FID	0.0025 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
Geraniol	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
β – Caryophyllene	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	0.018 w/w% 0.182 mg/g	Results Reported
Humulene	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	0.012 w/w% 0.117 mg/g	Results Reported
Cis – Nerolidol	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Trans – Nerolidol	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	0.004 w/w% 0.045 mg/g	Results Reported
α – Guaiol	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	0.023 w/w% 0.233 mg/g	Results Reported
Caryophyllene Oxide	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	0.008 w/w% 0.080 mg/g	Results Reported
α - Bisabolol	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	0.123 w/w% 1.226 mg/g	Results Reported
Total Terpenes	GC-FID	0.0025 w/w%	w/w%: Report Only mg/g: Report Only	0.188 w/w% 1.884 mg/g	Results Reported

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
Chlorantranilprole	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

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PESTICIDES ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
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
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					
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	NMT 20 ppb (20 mcg/mL)	< LOQ	PASS

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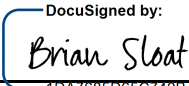
ASPERGILLUS ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Aspergillus flavus	RT-PCR	1 CFU/g	Absent	Absent	PASS
Aspergillus fumigatus	RT-PCR	1 CFU/g	Absent	Absent	PASS
Aspergillus niger	RT-PCR	1 CFU/g	Absent	Absent	PASS
Aspergillus terreus	RT-PCR	1 CFU/g	Absent	Absent	PASS

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	Santé Sample ID: 210667 Receipt Date: 03/10/2021 / 10:17 AM CST / S. ORTEGA Receipt Condition: Good Analysis Start Date: 03/10/2021

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. Specifications provided by Sponsor. *Average of duplicate preparations. Cannabinoids tested according to performance methods by AOAC SMPR 2019.003. ©2020 Santé Laboratories, LLC – All Rights Reserved

VERSION HISTORY		
Version	Effective Date	Summary of Changes
00	03/16/2021	Initial Release

PRODUCT SAMPLE / IMAGE


REVIEWED AND APPROVED BY		
DocuSigned by:  Brian Sloat <small>1DA7685D65C740B...</small>	3/16/2021 Date	DD-MM-YY
Brian Sloat, Ph.D. Chief Scientific Officer / Quality Manager Santé Laboratories		