



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 09/23/2021

Analysis ID No. 213306  
 TDA License No. 2020002  
 ISO/IEC No. 1055838  
 Customer No. 20210829  
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CUSTOMER INFORMATION		SAMPLE INFORMATION	
<b>Company Name:</b>	Medterra CBD	<b>Submitted Sample Name:</b>	Medterra Manuka Cream, 125mg / 1 oz
<b>Address:</b>	9805 Research Dr; Irvine, California 92618 USA	<b>Submitted Sample Lot:</b>	H13214-25
<b>Phone Number:</b>	800-972-1288	<b>Submitted Sample Description:</b>	Cream in Plastic Bottle w/ Blue Twist Cap; Stored at Room Temp
<b>Contact Name / Email:</b>	support@medterracbd.com	<b>Submitted Sample Product Type / Matrix:</b>	Lotion Cream / Topical

TOTAL THC ASSAY (COMPLIANCE, USDA)								
Analysis	Test Method	LOD	LOQ	Specifications	Test Results			Pass / Fail
Δ9-THC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: NMT 0.300 mg/g; NMT 3.00 (Δ9-THC States Only)	Replicate 1	Replicate 2	Average	PASS
					< LOD < LOQ	< LOD < LOQ	< LOD < LOQ	
THCa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	Replicate 1	Replicate 2	Average	Results Reported
					< LOD < LOQ	< LOD < LOQ	< LOD < LOQ	
Total THC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: NMT 0.300 mg/g; NMT 3.00	Replicate 1	Replicate 2	Average	PASS
					< LOD < LOQ	< LOD < LOQ	< LOD < LOQ	
Measurement Uncertainty (MU) = 0.02% at 0.3% THC					Total Potential THC = (THCa x 0.877)+ (Δ9-THC)			

LABEL CLAIM								
Analysis	Test Method	LOD	LOQ	Specifications	Test Results			Pass / Fail
CBD	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	mg/unit: Report Only* Target: 125 mg/unit	Replicate 1	Replicate 2	Average	Results Reported
					119.498 mg/unit	118.826 mg/unit	119.162 mg/unit	
CBD	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	% Label Claim: No Less Than (NLT) 100% Target: 100%	Replicate 1	Replicate 2	Average	PASS
					95.6%	95.1%	95.3%	
*Unit = 1.0 Oz = 28.34 grams								

CANNABINOIDS ASSAY						
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
CBD	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.420 w/w% 4.205 mg/g	Results Reported
CBDa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
Δ9-THC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
Δ8-THC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
Exo-THC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
THCa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
CBG	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
CBGa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
CBN	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
CBNa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported

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 ISO/IEC No. 1055838  
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CANNABINOIDS ASSAY						
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
CBC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
CBCa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
CBL	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
CBDV	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
CBDVa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
THCV	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
THCVa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
Total Cannabinoids	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.420 w/w% 4.205 mg/g	Results Reported

HEAVY METAL ASSAY						
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
Lead	USP <232> <233> by ICP-MS	3 ppb	10 ppb	NMT 1000 ppb	< LOD < LOQ	PASS
Mercury	USP <232> <233> by ICP-MS	2 ppb	5 ppb	NMT 500 ppb	< LOD < LOQ	PASS
Cadmium	USP <232> <233> by ICP-MS	3 ppb	10 ppb	NMT 300 ppb	< LOD < LOQ	PASS
Arsenic	USP <232> <233> by ICP-MS	3 ppb	10 ppb	NMT 1500 ppb	< LOD < LOQ	PASS

RESIDUAL SOLVENTS ASSAY						
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
1,1-Dichloroethene	USP <467> by GC-MS	0.007 ppm	0.4 ppm	NMT 8 ppm	< LOD < LOQ	PASS
1,1,1-Trichloroethane	USP <467> by GC-MS	1.25 ppm	75 ppm	NMT 1,500 ppm	< LOD < LOQ	PASS
1,2-Dichloroethane	USP <467> by GC-MS	0.005 ppm	0.25 ppm	NMT 5 ppm	< LOD < LOQ	PASS
Benzene	USP <467> by GC-MS	0.002 ppm	0.1 ppm	NMT 2 ppm	< LOD < LOQ	PASS
Carbon tetrachloride	USP <467> by GC-MS	0.004 ppm	0.2 ppm	NMT 4 ppm	< LOD < LOQ	PASS
1,2-dichloroethene (E,Z)	USP <467> by GC-MS	1.560 ppm	93.5 ppm	NMT 1870 ppm	< LOD < LOQ	PASS
1,2-Dimethoxyethane	USP <467> by GC-MS	0.090 ppm	5 ppm	NMT 100 ppm	< LOD < LOQ	PASS
1,2,3,4-tetrahydronaphthalene	USP <467> by GC-MS	0.090 ppm	5 ppm	NMT 100 ppm	< LOD < LOQ	PASS
1,4-Dioxane	USP <467> by GC-MS	0.320 ppm	19 ppm	NMT 380 ppm	< LOD < LOQ	PASS
2-Hexanone	USP <467> by GC-MS	0.042 ppm	2.5 ppm	NMT 50 ppm	< LOD < LOQ	PASS
4-methyl-2-pentanone	USP <467> by GC-MS	4.20 ppm	225 ppm	NMT 4,500 ppm	< LOD < LOQ	PASS
Acetonitrile	USP <467> by GC-MS	0.350 ppm	20.5 ppm	NMT 410 ppm	< LOD < LOQ	PASS

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Chlorobenzene	USP <467> by GC-MS	0.30 ppm	18 ppm	NMT 360 ppm	< LOD < LOQ	PASS
Chloroform	USP <467> by GC-MS	0.05 ppm	3 ppm	NMT 60 ppm	< LOD < LOQ	PASS
Cumene	USP <467> by GC-MS	0.06 ppm	3.5 ppm	NMT 70 ppm	< LOD < LOQ	PASS
Cyclohexane	USP <467> by GC-MS	3.3 ppm	194 ppm	NMT 3,880 ppm	< LOD < LOQ	PASS
Dichloromethane	USP <467> by GC-MS	0.50 ppm	30 ppm	NMT 600 ppm	< LOD < LOQ	PASS
Ethylbenzene	USP <467> by GC-MS	1.81 ppm	108.5 ppm	NMT 2,170 ppm	< LOD < LOQ	PASS
Hexane, n-	USP <467> by GC-MS	0.250 ppm	14.5 ppm	NMT 290 ppm	< LOD < LOQ	PASS
Methanol	USP <467> by GC-MS	2.5 ppm	150 ppm	NMT 3,000 ppm	< LOD < LOQ	PASS
Methylcyclohexane	USP <467> by GC-MS	0.98 ppm	59 ppm	NMT 1,180 ppm	< LOD < LOQ	PASS
Nitromethane	USP <467> by GC-MS	0.045 ppm	2.5 ppm	NMT 50 ppm	< LOD < LOQ	PASS
Pyridine	USP <467> by GC-MS	0.20 ppm	10 ppm	NMT 200 ppm	< LOD < LOQ	PASS
Sulfolane	USP <467> by GC-MS	0.60 ppm	8 ppm	NMT 160 ppm	< LOD < LOQ	PASS
Tetrahydrofuran	USP <467> by GC-MS	0.750 ppm	36 ppm	NMT 720 ppm	< LOD < LOQ	PASS
Toluene	USP <467> by GC-MS	0.07 ppm	44.5 ppm	NMT 890 ppm	< LOD < LOQ	PASS
Trichloroethene	USP <467> by GC-MS	36.2 ppm	4 ppm	NMT 80 ppm	< LOD < LOQ	PASS
Xylene, m-	USP <467> by GC-MS	1.81 ppm	108.5 ppm	NMT 2,170 ppm	< LOD < LOQ	PASS
Xylene, o-	USP <467> by GC-MS	1.81 ppm	108.5 ppm	NMT 2,170 ppm	< LOD < LOQ	PASS
Xylene, p-	USP <467> by GC-MS	4.2 ppm	108.5 ppm	NMT 2,170 ppm	< LOD < LOQ	PASS
1-Butanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
1-Pentanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
1-Propanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
2-Butanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
2-Butanone	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
2-methyl-1-propanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
2-Propanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
3-methyl-1-butanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Acetone	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Anisole	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Butyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Ethanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS

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Ethyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Ethyl ether	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Ethyl formate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Heptane, n-	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Isobutyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Isopropyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Methyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
N,N-Dimethylsulfoxide	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Pentane, n-	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Propyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
t-Butyl Methyl Ether	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Triethylamine	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Butane, iso-	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Butane, n-	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Propane	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
1,1-Dichloroethene	USP <467> by GC-MS	0.007 ppm	0.4 ppm	NMT 8 ppm	< LOD < LOQ	PASS
1,1,1-Trichloroethane	USP <467> by GC-MS	1.25 ppm	75 ppm	NMT 1,500 ppm	< LOD < LOQ	PASS

## 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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PESTICIDES ASSAY						
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
Acetamiprid	LC-MS/MS & GC-MS/MS	0.02 ppm	0.050 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Aldicarb	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.400 ppm	< LOD < LOQ	PASS
Azoxystrobin	LC-MS/MS & GC-MS/MS	0.003 ppm	0.010 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Bifenazate	LC-MS/MS & GC-MS/MS	0.002 ppm	0.005 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Boscalid	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Carbaryl (Sevin)	LC-MS/MS & GC-MS/MS	0.040 ppm	0.100 ppm	NMT 0.500 ppm	< LOD < LOQ	PASS
Carbofuran	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Chlorantraniliprole	LC-MS/MS & GC-MS/MS	0.040 ppm	0.100 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Chlorpyrifos	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.600 ppm	< LOD < LOQ	PASS
Cypermethrin	LC-MS/MS & GC-MS/MS	0.009 ppm	0.025 ppm	NMT 18.0 ppm	< LOD < LOQ	PASS
Diazinon	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 2.600 ppm	< LOD < LOQ	PASS
Dichlorvos	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.100 ppm	< LOD < LOQ	PASS
Ethoprophos (Prophos)	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.400 ppm	< LOD < LOQ	PASS
Etofenprox	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.400 ppm	< LOD < LOQ	PASS
Fipronil	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 1.000 ppm	< LOD < LOQ	PASS
Fonicamid	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 1.000 ppm	< LOD < LOQ	PASS
Imidacloprid	LC-MS/MS & GC-MS/MS	0.002 ppm	0.005 ppm	NMT 0.400 ppm	< LOD < LOQ	PASS
Metalaxyl	LC-MS/MS & GC-MS/MS	0.040 ppm	0.100 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Methiocarb	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.400 ppm	< LOD < LOQ	PASS
Methomyl	LC-MS/MS & GC-MS/MS	0.070 ppm	0.200 ppm	NMT 0.400 ppm	< LOD < LOQ	PASS
Methyl parathion	LC-MS/MS & GC-MS/MS	0.020ppm	0.050 ppm	NMT 8.500 ppm	< LOD < LOQ	PASS
Myclobutanil	LC-MS/MS & GC-MS/MS	0.002 ppm	0.005 ppm	NMT 0.300 ppm	< LOD < LOQ	PASS
Oxamyl	LC-MS/MS & GC-MS/MS	0.090 ppm	0.250 ppm	NMT 1.000 ppm	< LOD < LOQ	PASS
Permethrin (mix of isomers)	LC-MS/MS & GC-MS/MS	0.007 ppm	0.020 ppm	NMT 1.100 ppm	0.220 ppm	PASS
Pyridaben	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Spiroxamine	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 2.000 ppm	< LOD < LOQ	PASS
Tebuconazole	LC-MS/MS & GC-MS/MS	0.002 ppm	0.005 ppm	NMT 0.400 ppm	< LOD < LOQ	PASS
Thiacloprid	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS

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PESTICIDES ASSAY						
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
Thiamethoxam	LC-MS/MS & GC-MS/MS	0.009 ppm	0.025 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS

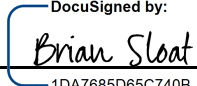
MYCOTOXINS ASSAY						
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
Total Aflatoxins	LC-MS/MS	2 ppm	5 ppb	NMT 20 ppb (20 mcg/kg)	< LOD < LOQ	PASS
Aflatoxin B1	LC-MS/MS	2 ppm	5 ppb	Report Only	< LOD < LOQ	Results Reported
Aflatoxin B2	LC-MS/MS	2 ppm	5 ppb	Report Only	< LOD < LOQ	Results Reported
Aflatoxin G1	LC-MS/MS	2 ppm	5 ppb	Report Only	< LOD < LOQ	Results Reported
Aflatoxin G2	LC-MS/MS	2 ppm	5 ppb	Report Only	< LOD < LOQ	Results Reported
Ochratoxin A	LC-MS/MS	2 ppm	5 ppb	NMT 20 ppb (20 mcg/kg)	< LOD < LOQ	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	

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
<b>Santé Laboratories</b> 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	<b>Santé Sample ID:</b> 213306 <b>Receipt Date:</b> 09/15/2021 / 10:03 AM CST / B. Rolland <b>Receipt Condition:</b> Good <b>Analysis Start Date:</b> 09/16/2021

ADDITIONAL REPORT NOTES
The reported results presented in this document are only applicable to samples submitted to Santé Laboratories for testing and may not represent the entire lot and/or batch produced by the manufacturer. <b>Specifications provided by Sponsor. Average of duplicate preparations. Cannabinoids tested according to performance methods by AOAC SMPR 2019.003.</b> ©2020 Santé Laboratories, LLC – All Rights Reserved

VERSION HISTORY		
Version	Effective Date	Summary of Changes
00	09/23/2021	Initial Release

REVIEWED AND APPROVED BY	
DocuSigned by:  <b>Brian Sloat, Ph.D.</b> Chief Scientific Officer / Quality Manager Santé Laboratories	23 September 2021   6:16:49 PM PDT <small>DD-MM-YY</small> Date



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 Purchase Order: 20210836  
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CUSTOMER INFORMATION		SAMPLE INFORMATION	
<b>Company Name:</b>	Medterra CBD	<b>Submitted Sample Name:</b>	Medterra 250mg CBD Manuka Honey Cream 2oz
<b>Address:</b>	9805 Research Dr; Irvine, California 92618 USA	<b>Submitted Sample Lot:</b>	H13215-250
<b>Phone Number:</b>	800-972-1288	<b>Submitted Sample Description:</b>	Light Yellow Viscous Material In Plastic Container; Stored RT
<b>Contact Name / Email:</b>	support@medterracbd.com	<b>Submitted Sample Product Type / Matrix:</b>	Hemp Extract / Topical

TOTAL THC ASSAY (COMPLIANCE, USDA)								
Analysis	Test Method	LOD	LOQ	Specifications	Test Results			Pass / Fail
Δ9-THC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: NMT 0.300 mg/g: NMT 3.00 (Δ9-THC States Only)	Replicate 1	Replicate 2	Average	PASS
					< LOD < LOQ	< LOD < LOQ	< LOD < LOQ	
THCa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	Replicate 1	Replicate 2	Average	Results Reported
					< LOD < LOQ	< LOD < LOQ	< LOD < LOQ	
Total THC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: NMT 0.300 mg/g: NMT 3.00	Replicate 1	Replicate 2	Average	PASS
					< LOD < LOQ	< LOD < LOQ	< LOD < LOQ	
Measurement Uncertainty (MU) = 0.02% at 0.3% THC					Total Potential THC = (THCa x 0.877) + (Δ9-THC)			

CBD LABEL CLAIM								
Analysis	Test Method	LOD	LOQ	Specifications	Test Results			Pass / Fail
CBD	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	mg/unit: Report Only* Target: 250 mg/unit	Replicate 1	Replicate 2	Average	Results Reported
					244.997 mg/unit	241.125 mg/unit	243.061 mg/unit	
CBD	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	% Label Claim: 90.0 to 110.0% Target: 100%	Replicate 1	Replicate 2	Average	PASS
					98.0%	96.4%	97.2%	
*Target Unit Weight = 2.0 oz = 56.7 grams								

CANNABINOIDS ASSAY							
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail	
CBD	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.429 w/w% 4.287 mg/g	Results Reported	
CBDa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported	
Δ9-THC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported	
Δ8-THC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported	
Exo-THC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported	
THCa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported	
CBG	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported	
CBGa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported	
CBN	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported	
CBNa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported	

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CANNABINOIDS ASSAY						
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
CBC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
CBCa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
CBL	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
CBDV	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.001 w/w% 0.006 mg/g	Results Reported
CBDVa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
THCV	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
THCVa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOD < LOQ	Results Reported
Total Cannabinoids	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.429 w/w% 4.293 mg/g	Results Reported

HEAVY METAL ASSAY						
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
Lead	USP <232> <233> by ICP-MS	3 ppb	10 ppb	NMT 1000 ppb	< LOD < LOQ	PASS
Mercury	USP <232> <233> by ICP-MS	2 ppb	5 ppb	NMT 500 ppb	< LOD < LOQ	PASS
Cadmium	USP <232> <233> by ICP-MS	3 ppb	10 ppb	NMT 300 ppb	< LOD < LOQ	PASS
Arsenic	USP <232> <233> by ICP-MS	3 ppb	10 ppb	NMT 1500 ppb	< LOD < LOQ	PASS

RESIDUAL SOLVENTS ASSAY						
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
1,1-Dichloroethene	USP <467> by GC-MS	0.007 ppm	0.4 ppm	NMT 8 ppm	< LOD < LOQ	PASS
1,1,1-Trichloroethane	USP <467> by GC-MS	1.25 ppm	75 ppm	NMT 1,500 ppm	< LOD < LOQ	PASS
1,2-Dichloroethane	USP <467> by GC-MS	0.005 ppm	0.25 ppm	NMT 5 ppm	< LOD < LOQ	PASS
Benzene	USP <467> by GC-MS	0.002 ppm	0.1 ppm	NMT 2 ppm	< LOD < LOQ	PASS
Carbon tetrachloride	USP <467> by GC-MS	0.004 ppm	0.2 ppm	NMT 4 ppm	< LOD < LOQ	PASS
1,2-dichloroethene (E,Z)	USP <467> by GC-MS	1.560 ppm	93.5 ppm	NMT 1870 ppm	< LOD < LOQ	PASS
1,2-Dimethoxyethane	USP <467> by GC-MS	0.090 ppm	5 ppm	NMT 100 ppm	< LOD < LOQ	PASS
1,2,3,4-tetrahydronaphthalene	USP <467> by GC-MS	0.090 ppm	5 ppm	NMT 100 ppm	< LOD < LOQ	PASS
1,4-Dioxane	USP <467> by GC-MS	0.320 ppm	19 ppm	NMT 380 ppm	< LOD < LOQ	PASS
2-Hexanone	USP <467> by GC-MS	0.042 ppm	2.5 ppm	NMT 50 ppm	< LOD < LOQ	PASS
4-methyl-2-pentanone	USP <467> by GC-MS	4.20 ppm	225 ppm	NMT 4,500 ppm	< LOD < LOQ	PASS
Acetonitrile	USP <467> by GC-MS	0.350 ppm	20.5 ppm	NMT 410 ppm	< LOD < LOQ	PASS
Chlorobenzene	USP <467> by GC-MS	0.30 ppm	18 ppm	NMT 360 ppm	< LOD < LOQ	PASS

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Chloroform	USP <467> by GC-MS	0.05 ppm	3 ppm	NMT 60 ppm	< LOD < LOQ	PASS
Cumene	USP <467> by GC-MS	0.06 ppm	3.5 ppm	NMT 70 ppm	< LOD < LOQ	PASS
Cyclohexane	USP <467> by GC-MS	3.3 ppm	194 ppm	NMT 3,880 ppm	< LOD < LOQ	PASS
Dichloromethane	USP <467> by GC-MS	0.50 ppm	30 ppm	NMT 600 ppm	< LOD < LOQ	PASS
Ethylbenzene	USP <467> by GC-MS	1.81 ppm	108.5 ppm	NMT 2,170 ppm	< LOD < LOQ	PASS
Hexane, n-	USP <467> by GC-MS	0.250 ppm	14.5 ppm	NMT 290 ppm	< LOD < LOQ	PASS
Methanol	USP <467> by GC-MS	2.5 ppm	150 ppm	NMT 3,000 ppm	< LOD < LOQ	PASS
Methylcyclohexane	USP <467> by GC-MS	0.98 ppm	59 ppm	NMT 1,180 ppm	< LOD < LOQ	PASS
Nitromethane	USP <467> by GC-MS	0.045 ppm	2.5 ppm	NMT 50 ppm	< LOD < LOQ	PASS
Pyridine	USP <467> by GC-MS	0.20 ppm	10 ppm	NMT 200 ppm	< LOD < LOQ	PASS
Sulfolane	USP <467> by GC-MS	0.60 ppm	8 ppm	NMT 160 ppm	< LOD < LOQ	PASS
Tetrahydrofuran	USP <467> by GC-MS	0.750 ppm	36 ppm	NMT 720 ppm	< LOD < LOQ	PASS
Toluene	USP <467> by GC-MS	0.07 ppm	44.5 ppm	NMT 890 ppm	< LOD < LOQ	PASS
Trichloroethene	USP <467> by GC-MS	36.2 ppm	4 ppm	NMT 80 ppm	< LOD < LOQ	PASS
Xylene, m-	USP <467> by GC-MS	1.81 ppm	108.5 ppm	NMT 2,170 ppm	< LOD < LOQ	PASS
Xylene, o-	USP <467> by GC-MS	1.81 ppm	108.5 ppm	NMT 2,170 ppm	< LOD < LOQ	PASS
Xylene, p-	USP <467> by GC-MS	4.2 ppm	108.5 ppm	NMT 2,170 ppm	< LOD < LOQ	PASS
1-Butanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
1-Pentanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
1-Propanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
2-Butanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
2-Butanone	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
2-methyl-1-propanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
2-Propanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
3-methyl-1-butanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Acetone	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Anisole	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Butyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Ethanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Ethyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS

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Ethyl ether	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Ethyl formate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Heptane, n-	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Isobutyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Isopropyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Methyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
N,N-Dimethylsulfoxide	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Pentane, n-	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Propyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
t-Butyl Methyl Ether	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Triethylamine	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Butane, iso-	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Butane, n-	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
Propane	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOD < LOQ	PASS
1,1-Dichloroethene	USP <467> by GC-MS	0.007 ppm	0.4 ppm	NMT 8 ppm	< LOD < LOQ	PASS
1,1,1-Trichloroethane	USP <467> by GC-MS	1.25 ppm	75 ppm	NMT 1,500 ppm	< LOD < LOQ	PASS

## 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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PESTICIDES ASSAY						
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
Acetamiprid	LC-MS/MS & GC-MS/MS	0.02 ppm	0.050 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Aldicarb	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.400 ppm	< LOD < LOQ	PASS
Azoxystrobin	LC-MS/MS & GC-MS/MS	0.003 ppm	0.010 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Bifenazate	LC-MS/MS & GC-MS/MS	0.002 ppm	0.005 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Boscalid	LC-MS/MS & GC-MS/MS	0.020 Ppm	0.050 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Carbaryl (Sevin)	LC-MS/MS & GC-MS/MS	0.040 Ppm	0.100 ppm	NMT 0.500 ppm	< LOD < LOQ	PASS
Carbofuran	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Chlorantraniliprole	LC-MS/MS & GC-MS/MS	0.040 Ppm	0.100 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Chlorpyrifos	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.600 ppm	< LOD < LOQ	PASS
Cypermethrin	LC-MS/MS & GC-MS/MS	0.009 ppm	0.025 ppm	NMT 18.0 ppm	< LOD < LOQ	PASS
Diazinon	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 2.600 ppm	< LOD < LOQ	PASS
Dichlorvos	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.100 ppm	< LOD < LOQ	PASS
Ethoprophos (Prophos)	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.400 ppm	< LOD < LOQ	PASS
Etofenprox	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.400 ppm	< LOD < LOQ	PASS
Fipronil	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 1.000 ppm	< LOD < LOQ	PASS
Fonicamid	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 1.000 ppm	< LOD < LOQ	PASS
Imidacloprid	LC-MS/MS & GC-MS/MS	0.002 ppm	0.005 ppm	NMT 0.400 ppm	< LOD < LOQ	PASS
Metalaxyl	LC-MS/MS & GC-MS/MS	0.040 Ppm	0.100 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Methiocarb	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.400 ppm	< LOD < LOQ	PASS
Methomyl	LC-MS/MS & GC-MS/MS	0.070 ppm	0.200 ppm	NMT 0.400 ppm	< LOD < LOQ	PASS
Methyl parathion	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 8.500 ppm	< LOD < LOQ	PASS
Myclobutanil	LC-MS/MS & GC-MS/MS	0.002 ppm	0.005 ppm	NMT 0.300 ppm	< LOD < LOQ	PASS
Oxamyl	LC-MS/MS & GC-MS/MS	0.090 ppm	0.250 ppm	NMT 1.000 ppm	< LOD < LOQ	PASS
Permethrin (mix of isomers)	LC-MS/MS & GC-MS/MS	0.007 ppm	0.020 ppm	NMT 1.100 ppm	0.257 ppb	PASS
Pyridaben	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS
Spiroxamine	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 2.000 ppm	< LOD < LOQ	PASS
Tebuconazole	LC-MS/MS & GC-MS/MS	0.002 ppm	0.005 ppm	NMT 0.400 ppm	< LOD < LOQ	PASS
Thiacloprid	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS

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PESTICIDES ASSAY						
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
Thiamethoxam	LC-MS/MS & GC-MS/MS	0.009 ppm	0.025 ppm	NMT 0.200 ppm	< LOD < LOQ	PASS

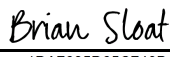
MYCOTOXINS ASSAY						
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
Total Aflatoxins	LC-MS/MS	2 ppm	5 ppb	NMT 20 ppb (20 mcg/kg)	< LOD < LOQ	PASS
Aflatoxin B1	LC-MS/MS	2 ppm	5 ppb	Report Only	< LOD < LOQ	Results Reported
Aflatoxin B2	LC-MS/MS	2 ppm	5 ppb	Report Only	< LOD < LOQ	Results Reported
Aflatoxin G1	LC-MS/MS	2 ppm	5 ppb	Report Only	< LOD < LOQ	Results Reported
Aflatoxin G2	LC-MS/MS	2 ppm	5 ppb	Report Only	< LOD < LOQ	Results Reported
Ochratoxin A	LC-MS/MS	2 ppm	5 ppb	NMT 20 ppb (20 mcg/kg)	< LOD < LOQ	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

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
<b>Santé Laboratories</b> 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	<b>Santé Sample ID:</b> 213333 <b>Receipt Date:</b> 09/17/2021 / 10:10 AM CST / M. Cardona <b>Receipt Condition:</b> Good <b>Analysis Start Date:</b> 09/20/2021

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

VERSION HISTORY		
Version	Effective Date	Summary of Changes
00	09/24/2021	Initial Release

REVIEWED AND APPROVED BY	
DocuSigned by:  <b>Brian Sloat, Ph.D.</b> Chief Scientific Officer / Quality Manager Santé Laboratories 1DA7685D65C740B...	24 September 2021   5:21:56 PM PDT DD-MM-YY Date