

STATUS: RELEASED REVISION: 01
DATE: 08/25/2021

 Analysis ID No.
 212880

 TDA License No.
 2020002

 ISO/IEC No.
 1055838

 Customer No.
 20210739

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CUSTOMER INFORMATION	SAMPLE INFORMATION
Company Name:	Submitted Sample Name:
Medterra CBD	Medterra 500mg CBD Rapid Cooling Roll-On, 2 oz
Address:	Submitted Sample Lot:
9805 Research Dr; Irvine, California 92618 USA	I17211-500
Phone Number:	Submitted Sample Description:
800-972-1288	Off-White/Cream Colored Viscous Material in Plastic Container
Contact Name / Email:	Submitted Sample Product Type / Matrix:
support@medterracbd.com	Hemp Extract / Topical

	TOTAL THC ASSAY (COMPLIANCE, USDA)								
Analysis	Test Method	LOD	LOQ	Specifications	Test Results			Pass / Fail	
	UHPLC-	0.0007	0.002	w/w%: NMT 0.300	Replicate 1	Replicate 2	Average		
∆9-THC	DAD	w/w%	w/w%	mg/g: NMT 3.00 (∆9-THC States Only)	< LOQ	< LOQ	< LOQ	PASS	
	UHPLC-	0.0007	0.002	w/w%: Report Only mg/g: Report Only	Replicate 1	Replicate 2	Average	Results	
THCa	DAD	w/w%	w/w%		< LOQ	< LOQ	< LOQ	Reported	
	111101.6	0.0007	0.002	/ 0/ NINAT 0 200	Replicate 1	Replicate 2	Average		
Total THC	UHPLC- DAD	0.0007 w/w%	0.002 w/w%	w/w%: NMT 0.300 mg/g: NMT 3.00	< LOQ	< LOQ	< LOQ	PASS	
ı	Measurement Uncertainty (MU) = 0.02% at 0.3% THC					otential THC = (TI	HCa x 0.877)+ (Δ	9-THC)	

	CBD LABEL CLAIM									
Analysis	Test Method	LOD	LOQ	Specifications		Test Results		Pass / Fail		
	UHPLC-	0.0007	0.002	mg/unit: Report Only*	Replicate 1	Replicate 2	Average	Results		
CBD	DAD	w/w%	w/w%	Target: 500 mg/unit	502.923 mg/unit	509.150 mg/unit	506.036 mg/unit	Reported		
	UHPLC-	0.0007	0.002	% Label Claim:	Replicate 1	Replicate 2	Average			
CBD	DAD   w/w%   w/w%	90.0 to 110.0% Target: 100%	100.6%	101.8%	101.2%	PASS				
	*Target Unit Weight = 2 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	0.892 w/w% 8.925 mg/g	Results Reported				
CBDa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported				
∆9-ТНС	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported				
Δ8-THC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported				
Exo-THC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported				
THCa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported				
CBG	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported				
CBGa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported				



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			CANNABINO	DS ASSAY		
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
CBN	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
CBNa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
CBC	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
CBCa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
CBL	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
CBDV	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
CBDVa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
THCV	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
THCVa	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< LOQ	Results Reported
Total Cannabinoids	UHPLC-DAD	0.0007 w/w%	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.892 w/w% 8.925 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	< LOQ	PASS			
Mercury	USP <232> <233> by ICP-MS	2 ppb	5 ppb	NMT 500 ppb	< LOQ	PASS			
Cadmium	USP <232> <233> by ICP-MS	3 ppb	10 ppb	NMT 300 ppb	< LOQ	PASS			
Arsenic	USP <232> <233> by ICP-MS	3 ppb	10 ppb	NMT 1500 ppb	< 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	< LOQ	PASS			
1,1,1-Trichloroethane	USP <467> by GC-MS	1.25 ppm	75 ppm	NMT 1,500 ppm	< LOQ	PASS			
1,2-Dichloroethane	USP <467> by GC-MS	0.005 ppm	0.25 ppm	NMT 5 ppm	< LOQ	PASS			
Benzene	USP <467> by GC-MS	0.002 ppm	0.1 ppm	NMT 2 ppm	< LOQ	PASS			
Carbon tetrachloride	USP <467> by GC-MS	0.004 ppm	0.2 ppm	NMT 4 ppm	< LOQ	PASS			
1,2-dichloroethene (E,Z)	USP <467> by GC-MS	1.560 ppm	93.5 ppm	NMT 1870 ppm	< LOQ	PASS			
1,2-Dimethoxyethane	USP <467> by GC-MS	0.090 ppm	5 ppm	NMT 100 ppm	< LOQ	PASS			
1,2,3,4- tetrahydronapthalene	USP <467> by GC-MS	0.090 ppm	5 ppm	NMT 100 ppm	< LOQ	PASS			
1,4-Dioxane	USP <467> by GC-MS	0.320 ppm	19 ppm	NMT 380 ppm	< LOQ	PASS			



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2-Hexanone	USP <467> by GC-MS	0.042 ppm	2.5 ppm	NMT 50 ppm	< LOQ	PASS
4-methyl-2-pentanone	USP <467> by GC-MS	4.20 ppm	225 ppm	NMT 4,500 ppm	< LOQ	PASS
Acetonitrile	USP <467> by GC-MS	0.350 ppm	20.5 ppm	NMT 410 ppm	< LOQ	PASS
Chlorobenzene	USP <467> by GC-MS	0.30 ppm	18 ppm	NMT 360 ppm	< LOQ	PASS
Chloroform	USP <467> by GC-MS	0.05 ppm	3 ppm	NMT 60 ppm	< LOQ	PASS
Cumene	USP <467> by GC-MS	0.06 ppm	3.5 ppm	NMT 70 ppm	< LOQ	PASS
Cyclohexane	USP <467> by GC-MS	3.3 ppm	194 ppm	NMT 3,880 ppm	< LOQ	PASS
Dichloromethane	USP <467> by GC-MS	0.50 ppm	30 ppm	NMT 600 ppm	< LOQ	PASS
Ethylbenzene	USP <467> by GC-MS	1.81 ppm	108.5 ppm	NMT 2,170 ppm	< LOQ	PASS
Hexane, n-	USP <467> by GC-MS	0.250 ppm	14.5 ppm	NMT 290 ppm	< LOQ	PASS
Methanol	USP <467> by GC-MS	2.5 ppm	150 ppm	NMT 3,000 ppm	< LOQ	PASS
Methylcyclohexane	USP <467> by GC-MS	0.98 ppm	59 ppm	NMT 1,180 ppm	< LOQ	PASS
Nitromethane	USP <467> by GC-MS	0.045 ppm	2.5 ppm	NMT 50 ppm	< LOQ	PASS
Pyridine	USP <467> by GC-MS	0.20 ppm	10 ppm	NMT 200 ppm	< LOQ	PASS
Sulfolane	USP <467> by GC-MS	0.60 ppm	8 ppm	NMT 160 ppm	< LOQ	PASS
Tetrahydrofuran	USP <467> by GC-MS	0.750 ppm	36 ppm	NMT 720 ppm	< LOQ	PASS
Toluene	USP <467> by GC-MS	0.07 ppm	44.5 ppm	NMT 890 ppm	< LOQ	PASS
Trichloroethene	USP <467> by GC-MS	36.2 ppm	4 ppm	NMT 80 ppm	< LOQ	PASS
Xylene, m-	USP <467> by GC-MS	1.81 ppm	108.5 ppm	NMT 2,170 ppm	< LOQ	PASS
Xylene, o-	USP <467> by GC-MS	1.81 ppm	108.5 ppm	NMT 2,170 ppm	< LOQ	PASS
Xylene, p-	USP <467> by GC-MS	4.2 ppm	108.5 ppm	NMT 2,170 ppm	< LOQ	PASS
1-Butanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
1-Pentanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
1-Propanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
2-Butanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
2-Butanone	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
2-methyl-1-propanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
2-Propanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
3-methyl-1-butanol	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Acetone	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS



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Anisole	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Butyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Ethanol	USP <467> by GC-MS	4.2 ppm	250 ppm	Report Results	30,522.96 ppm	Resulted Reported
Ethyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Ethyl ether	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Ethyl formate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Heptane, n-	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Isobutyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Isopropyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Methyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
N,N-Dimethylsulfoxide	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Pentane, n-	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Propyl acetate	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
t-Butyl Methyl Ether	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Triethylamine	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Butane, iso-	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Butane, n-	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
Propane	USP <467> by GC-MS	4.2 ppm	250 ppm	NMT 5,000 ppm	< LOQ	PASS
1,1-Dichloroethene	USP <467> by GC-MS	0.007 ppm	0.4 ppm	NMT 8 ppm	< LOQ	PASS
1,1,1-Trichloroethane	USP <467> by GC-MS	1.25 ppm	75 ppm	NMT 1,500 ppm	< 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					



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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			

	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	< LOQ	PASS			
Aldicarb	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.400 ppm	< LOQ	PASS			
Azoxystrobin	LC-MS/MS & GC-MS/MS	0.003 ppm	0.010 ppm	NMT 0.200 ppm	< LOQ	PASS			
Bifenazate	LC-MS/MS & GC-MS/MS	0.002 ppm	0.005 ppm	NMT 0.200 ppm	< LOQ	PASS			
Boscalid	LC-MS/MS & GC-MS/MS	0.020 Ppm	0.050 ppm	NMT 0.200 ppm	< LOQ	PASS			
Carbaryl (Sevin)	LC-MS/MS & GC-MS/MS	0.040 Ppm	0.100 ppm	NMT 0.500 ppm	< LOQ	PASS			
Carbofuran	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.200 ppm	< LOQ	PASS			
Chlorantraniliprole	LC-MS/MS & GC-MS/MS	0.040 Ppm	0.100 ppm	NMT 0.200 ppm	< LOQ	PASS			
Chlorpyrifos	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.600 ppm	< LOQ	PASS			
Cypermethrin	LC-MS/MS & GC-MS/MS	0.009 ppm	0.025 ppm	NMT 18.0 ppm	< LOQ	PASS			
Diazinon	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 2.600 ppm	< LOQ	PASS			
Dichlorvos	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.100 ppm	< LOQ	PASS			
Ethoprophos (Prophos)	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.400 ppm	< LOQ	PASS			
Etofenprox	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.400 ppm	< LOQ	PASS			
Fipronil	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 1.000 ppm	< LOQ	PASS			
Flonicamid	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 1.000 ppm	< LOQ	PASS			
Imidacloprid	LC-MS/MS & GC-MS/MS	0.002 ppm	0.005 ppm	NMT 0.400 ppm	< LOQ	PASS			
Metalaxyl	LC-MS/MS & GC-MS/MS	0.040 Ppm	0.100 ppm	NMT 0.200 ppm	< LOQ	PASS			
Methiocarb	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.400 ppm	< LOQ	PASS			
Methomyl	LC-MS/MS & GC-MS/MS	0.070 ppm	0.200 ppm	NMT 0.400 ppm	< LOQ	PASS			
Methyl parathion	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 8.500 ppm	< LOQ	PASS			
Myclobutanil	LC-MS/MS & GC-MS/MS	0.002 ppm	0.005 ppm	NMT 0.300 ppm	< LOQ	PASS			

Santé Laboratories, LLC - 8201 East Riverside Drive, STE 650, Austin, Texas 78744 USA Email: Testing@santelabs.com - Telephone: 512-309-5830 - Website: www.santelabs.com



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PESTICIDES ASSAY						
Analysis	Test Method	LOD	LOQ	Specifications	Test Results	Pass / Fail
Oxamyl	LC-MS/MS & GC-MS/MS	0.090 ppm	0.250 ppm	NMT 1.000 ppm	< LOQ	PASS
Permethrin (mix of isomers)	LC-MS/MS & GC-MS/MS	0.007 ppm	0.020 ppm	NMT 1.100 ppm	< LOQ	PASS
Pyridaben	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.200 ppm	< LOQ	PASS
Spiroxamine	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 2.000 ppm	< LOQ	PASS
Tebuconazole	LC-MS/MS & GC-MS/MS	0.002 ppm	0.005 ppm	NMT 0.400 ppm	< LOQ	PASS
Thiacloprid	LC-MS/MS & GC-MS/MS	0.020 ppm	0.050 ppm	NMT 0.200 ppm	< LOQ	PASS
Thiamethoxam	LC-MS/MS & GC-MS/MS	0.009 ppm	0.025 ppm	NMT 0.200 ppm	< 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)	< LOQ	PASS
Aflatoxin B1	LC-MS/MS	2 ppm	5 ppb	Report Only	< LOQ	Results Reported
Aflatoxin B2	LC-MS/MS	2 ppm	5 ppb	Report Only	< LOQ	Results Reported
Aflatoxin G1	LC-MS/MS	2 ppm	5 ppb	Report Only	< LOQ	Results Reported
Aflatoxin G2	LC-MS/MS	2 ppm	5 ppb	Report Only	< LOQ	Results Reported
Ochratoxin A	LC-MS/MS	2 ppm	5 ppb	NMT 20 ppb (20 mcg/kg)	< 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
Santé Laboratories	Santé Sample ID: 212880
8201 East Riverside Drive, STE 650	Receipt Date: 08/17/2021 / 1:00 PM CST / S. ORTEGA
Austin, Texas 78744 USA	Receipt Condition: Good Analysis Start Date: 08/17/2021

### 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. **Specifications provided by Sponsor. Average of duplicate preparations.**Cannabinoids tested according to performance methods by AOAC SMPR 2019.003.

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VERSION HISTORY				
Version	Effective Date	Summary of Changes		
00	08/24/2021	Initial Release		
01	08/25/2021	Updated sample information		

REVIEWED AND APPROVED BY				
DocuSigned by:				
Brian Sloat	8/25/2021	DD-MM-YY		
Brian Sloat, Ph.D. 1DA7685D65C740B	Date			
Chief Scientific Officer / Quality Manager				
Santé Laboratories				