



This is an amended version of the report# 081395-00.
Reason: Results reported in mg/capsule.

Product identity: Full Spectrum CBD Softgel 20mg **Client/Metric ID:** Lot: 9333
Laboratory ID: 19-009391-0001 **Sample Date:**

Summary

Potency:

Analyte	Result	Limits	Units	LOQ	
CBC [†]	0.178		%	0.00	CBD-Total (%) 4.65 %
CBD	4.65		%	0.03	
CBDV [†]	0.0954		%	0.00	THC-Total (%) 0.148 %
CBG [†]	0.100		%	0.00	
CBN	0.00338		%	0.00	CBD-Total per 0.92g 42.8 mg/27.6g
Δ9-THC	0.148		%	0.00	
THCV [†]	0.00637		%	0.00	THC-Total per 0.92g 1.36 mg/27.6g
Analyte per 0.92g	Result	Limits	Units	LOQ	CBD-Total per 27.6g 1280 mg/27.6g
CBC per 0.92g [†]	1.64		mg/0.92g	0.03	
CBD per 0.92g	42.8		mg/0.92g	0.03	THC-Total per 27.6g 40.8 mg/27.6g
CBDV per 0.92g [†]	0.878		mg/0.92g	0.03	
CBG per 0.92g [†]	0.920		mg/0.92g	0.03	
CBN per 0.92g	0.0311		mg/0.92g	0.03	
Δ9-THC per 0.92g	1.36		mg/0.92g	0.03	
THCV per 0.92g [†]	0.0586		mg/0.92g	0.03	
Analyte per 27.6g	Result	Limits	Units	LOQ	
CBC per 27.6g [†]	49.1		mg/27.6g	0.92	
CBD per 27.6g	1280		mg/27.6g	0.92	
CBDV per 27.6g [†]	26.3		mg/27.6g	0.92	
CBG per 27.6g [†]	27.6		mg/27.6g	0.92	
CBN per 27.6g	0.933		mg/27.6g	0.92	
Δ9-THC per 27.6g	40.8		mg/27.6g	0.92	
THCV per 27.6g [†]	1.76		mg/27.6g	0.92	

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

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Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
β-Caryophyllene†	0.0445	0.01	α-Bisabolol†	0.0370	0.00
Total Terpenes†	0.0815	0.01			

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



Customer: Trace Minerals Research

Product identity: Full Spectrum CBD Softgel 20mg
Client/Metric ID: Lot: 9333
Sample Date:
Laboratory ID: 19-009391-0001
Relinquished by: Received By Mail
Temp: 23.1 °C
Serving Size #1: 0.92 g
Serving Size #2: 27.6 g



Sample Results

Potency		Batch: 1907186						
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes	
CBC [†]	0.178		%	0.0032	08/09/19	J AOAC 2015 V98-6		
CBC-A [†]	< LOQ		%	0.0032	08/09/19	J AOAC 2015 V98-6		
CBC-Total [†]	0.178		%	0.0061	08/16/19	J AOAC 2015 V98-6		
CBD	4.65		%	0.0324	08/08/19	J AOAC 2015 V98-6		
CBD-A	< LOQ		%	0.0032	08/09/19	J AOAC 2015 V98-6		
CBD-Total	4.65		%	0.0352	08/16/19	J AOAC 2015 V98-6		
CBDV [†]	0.0954		%	0.0032	08/09/19	J AOAC 2015 V98-6		
CBDV-A [†]	< LOQ		%	0.0032	08/09/19	J AOAC 2015 V98-6		
CBDV-Total [†]	0.0954		%	0.0060	08/16/19	J AOAC 2015 V98-6		
CBG [†]	0.100		%	0.0032	08/09/19	J AOAC 2015 V98-6		
CBG-A [†]	< LOQ		%	0.0032	08/09/19	J AOAC 2015 V98-6		
CBG-Total [†]	0.100		%	0.0060	08/16/19	J AOAC 2015 V98-6		
CBL [†]	< LOQ		%	0.0032	08/09/19	J AOAC 2015 V98-6		
CBN	0.00338		%	0.0032	08/09/19	J AOAC 2015 V98-6		
Δ8-THC [†]	< LOQ		%	0.0032	08/09/19	J AOAC 2015 V98-6		
Δ9-THC	0.148		%	0.0032	08/09/19	J AOAC 2015 V98-6		
THC-A	< LOQ		%	0.0032	08/09/19	J AOAC 2015 V98-6		
THC-Total	0.148		%	0.0061	08/16/19	J AOAC 2015 V98-6		
THCV [†]	0.00637		%	0.0032	08/09/19	J AOAC 2015 V98-6		
THCV-A [†]	< LOQ		%	0.0032	08/09/19	J AOAC 2015 V98-6		
THCV-Total [†]	0.00637		%	0.0060	08/16/19	J AOAC 2015 V98-6		

Potency per 0.92g		Batch: 1907186						
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes	
CBC per 0.92g [†]	1.64		mg/0.92g	0.0307	08/20/19	J AOAC 2015 V98-6		
CBC-A per 0.92g [†]	< LOQ		mg/0.92g	0.0307	08/16/19	J AOAC 2015 V98-6		
CBC-Total per 0.92g [†]	1.64		mg/0.92g	0.0576	08/20/19	J AOAC 2015 V98-6		
CBD per 0.92g	42.8		mg/0.92g	0.0307	08/20/19	J AOAC 2015 V98-6		
CBD-A per 0.92g	< LOQ		mg/0.92g	0.0307	08/16/19	J AOAC 2015 V98-6		

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Potency per 0.92g Batch: 1907186

Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBD-Total per 0.92g	42.8		mg/0.92g	0.0576	08/20/19	J AOAC 2015 V98-6	
CBDV per 0.92g [†]	0.878		mg/0.92g	0.0307	08/20/19	J AOAC 2015 V98-6	
CBDV-A per 0.92g [†]	< LOQ		mg/0.92g	0.0307	08/16/19	J AOAC 2015 V98-6	
CBDV-Total per 0.92g [†]	0.878		mg/0.92g	0.0572	08/20/19	J AOAC 2015 V98-6	
CBG per 0.92g [†]	0.920		mg/0.92g	0.0307	08/20/19	J AOAC 2015 V98-6	
CBG-A per 0.92g [†]	< LOQ		mg/0.92g	0.0307	08/16/19	J AOAC 2015 V98-6	
CBG-Total per 0.92g [†]	0.920		mg/0.92g	0.0576	08/20/19	J AOAC 2015 V98-6	
CBL per 0.92g [†]	< LOQ		mg/0.92g	0.0307	08/16/19	J AOAC 2015 V98-6	
CBN per 0.92g	0.0311		mg/0.92g	0.0307	08/20/19	J AOAC 2015 V98-6	
Δ8-THC per 0.92g [†]	< LOQ		mg/0.92g	0.0307	08/16/19	J AOAC 2015 V98-6	
Δ9-THC per 0.92g	1.36		mg/0.92g	0.0307	08/20/19	J AOAC 2015 V98-6	
THC-A per 0.92g	< LOQ		mg/0.92g	0.0307	08/16/19	J AOAC 2015 V98-6	
THC-Total per 0.92g	1.36		mg/0.92g	0.0576	08/20/19	J AOAC 2015 V98-6	
THCV per 0.92g [†]	0.0586		mg/0.92g	0.0307	08/20/19	J AOAC 2015 V98-6	
THCV-A per 0.92g [†]	< LOQ		mg/0.92g	0.0307	08/16/19	J AOAC 2015 V98-6	
THCV-Total per 0.92g [†]	0.0586		mg/0.92g	0.0572	08/20/19	J AOAC 2015 V98-6	

Potency per 27.6g Batch: 1907186

Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 27.6g [†]	49.1		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
CBC-A per 27.6g [†]	< LOQ		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
CBC-Total per 27.6g [†]	49.1		mg/27.6g	1.73	08/20/19	J AOAC 2015 V98-6	
CBD per 27.6g	1280		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
CBD-A per 27.6g	< LOQ		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
CBD-Total per 27.6g	1280		mg/27.6g	1.73	08/20/19	J AOAC 2015 V98-6	
CBDV per 27.6g [†]	26.3		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
CBDV-A per 27.6g [†]	< LOQ		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
CBDV-Total per 27.6g [†]	26.3		mg/27.6g	1.72	08/20/19	J AOAC 2015 V98-6	
CBG per 27.6g [†]	27.6		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
CBG-A per 27.6g [†]	< LOQ		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
CBG-Total per 27.6g [†]	27.6		mg/27.6g	1.73	08/20/19	J AOAC 2015 V98-6	
CBL per 27.6g [†]	< LOQ		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
CBN per 27.6g	0.933		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
Δ8-THC per 27.6g [†]	< LOQ		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
Δ9-THC per 27.6g	40.8		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
THC-A per 27.6g	< LOQ		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
THC-Total per 27.6g	40.8		mg/27.6g	1.73	08/20/19	J AOAC 2015 V98-6	
THCV per 27.6g [†]	1.76		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
THCV-A per 27.6g [†]	< LOQ		mg/27.6g	0.920	08/20/19	J AOAC 2015 V98-6	
THCV-Total per 27.6g [†]	1.76		mg/27.6g	1.72	08/20/19	J AOAC 2015 V98-6	

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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1907107	08/09/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1907107	08/09/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1907105	08/09/19	AOAC 2014.05 (RAPID)	X
Yeast	< LOQ		cfu/g	10	1907105	08/09/19	AOAC 2014.05 (RAPID)	X

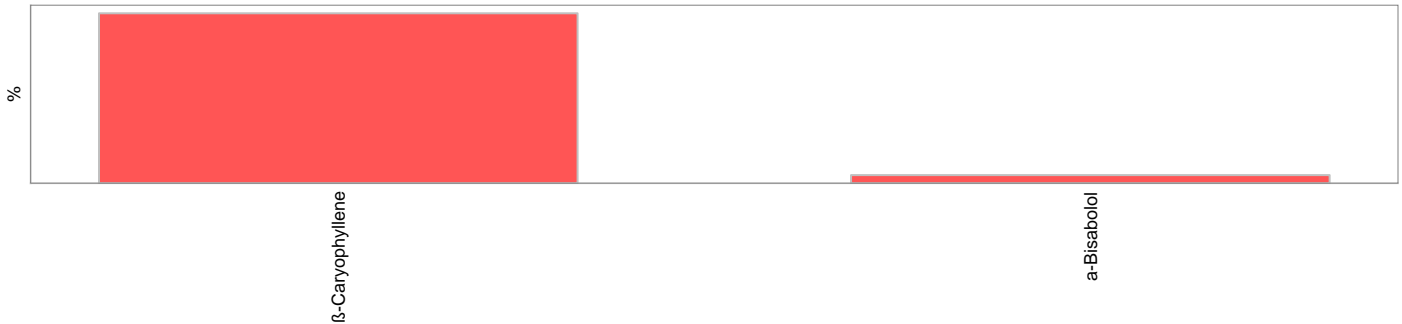
Solvents						Method EPA5021A		Units µg/g		Batch 1907188		Analyze 08/09/19 05:08 PM	
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes		
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass			
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane	< LOQ		200				
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass			
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< LOQ		200				
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0				
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass			
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass			
Cyclohexane	< LOQ	3880	200	pass		Ethyl acetate	< LOQ	5000	200	pass			
Ethyl benzene	< LOQ		200			Ethyl ether	< LOQ	5000	200	pass			
Ethylene glycol	< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	30.0	pass			
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass			
Isopropylbenzene	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200				
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	200	pass			
Methylpropane	< LOQ		200			n-Butane	< LOQ		200				
n-Heptane	< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0				
n-Pentane	< LOQ		200			o-Xylene	< LOQ		200				
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass			
Tetrahydrofuran	< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass			
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl	< LOQ	2170	600	pass			

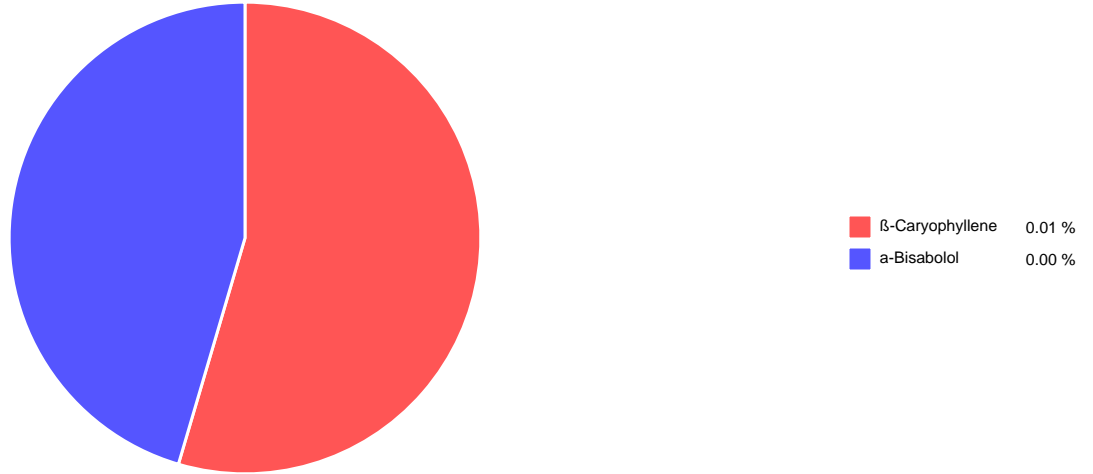


Pesticides					Method AOAC 2007.01 & EN 15662 (mod)					Units mg/kg					Batch 1907167					Analyze 08/09/19 12:29 PM				
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass														
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass														
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass														
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass														
Boscalid	< LOQ	0.40	0.100	pass		Carbaryl	< LOQ	0.20	0.100	pass														
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass														
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass														
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin (incl.	< LOQ	1.0	0.500	pass														
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass														
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass														
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass														
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass														
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass														
Fipronil	< LOQ	0.40	0.200	pass		Fonicamid	< LOQ	1.0	0.400	pass														
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass														
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass														
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass														
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass														
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass														
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass														
Oxamyl	< LOQ	1.0	0.500	pass		Paclobutrazole	< LOQ	0.40	0.200	pass														
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass														
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass														
Prallethrin	< LOQ	0.20	0.100	pass		Propiconazole	< LOQ	0.40	0.200	pass														
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500	pass														
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass														
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass														
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass														
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass														
Trifloxystrobin	< LOQ	0.20	0.100	pass																				



Terpenes					Method J AOAC 2015 V98-6					Units % Batch 1907100 Analyze 08/07/19 03:47 PM				
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes					
β-Caryophyllene†	0.0445	0.020	0.01%		α-Bisabolol†	0.0370	0.020	0.00%						
(-)-α-Terpineol†	< LOQ	0.020	0.00%		(-)-caryophyllene oxide†	< LOQ	0.020	0.00%						
(-)-Guaiol†	< LOQ	0.020	0.00%		(-)-Isopulegol†	< LOQ	0.020	0.00%						
(-)-β-Pinene†	< LOQ	0.020	0.00%		(+)-Borneol†	< LOQ	0.020	0.00%						
(+)-Cedrol†	< LOQ	0.020	0.00%		(+)-fenchol†	< LOQ	0.020	0.00%						
(+)-Pulegone†	< LOQ	0.020	0.00%		(±)-Camphor†	< LOQ	0.020	0.00%						
(±)-cis-Nerolidol†	< LOQ	0.020	0.00%		(±)-fenchone†	< LOQ	0.020	0.00%						
(±)-trans-Nerolidol†	< LOQ	0.020	0.00%		(R)-(+)-Limonene†	< LOQ	0.020	0.00%						
α-cedrene†	< LOQ	0.020	0.00%		α-phellandrene†	< LOQ	0.020	0.00%						
α-pinene†	< LOQ	0.020	0.00%		α-Terpinene†	< LOQ	0.020	0.00%						
Camphene†	< LOQ	0.020	0.00%		cis-β-Ocimene†	< LOQ	0.006	0.00%						
d-3-Carene†	< LOQ	0.020	0.00%		Eucalyptol†	< LOQ	0.020	0.00%						
farnesene†	< LOQ	0.020	0.00%		γ-Terpinene†	< LOQ	0.020	0.00%						
Geraniol†	< LOQ	0.020	0.00%		Geranyl acetate†	< LOQ	0.020	0.00%						
Humulene†	< LOQ	0.020	0.00%		Isoborneol†	< LOQ	0.020	0.00%						
Linalool†	< LOQ	0.020	0.00%		Menthol†	< LOQ	0.020	0.00%						
nerol†	< LOQ	0.020	0.00%		p-Cymene†	< LOQ	0.020	0.00%						
Sabinene†	< LOQ	0.020	0.00%		Sabinene hydrate†	< LOQ	0.020	0.00%						
β-Myrcene†	< LOQ	0.020	0.00%		Terpinolene†	< LOQ	0.020	0.00%						
trans-β-Ocimene†	< LOQ	0.013	0.00%		valencene†	< LOQ	0.020	0.00%						
Total Terpenes	0.0815													





Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.0387	1907217	08/09/19	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.0387	1907217	08/09/19	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.0387	1907217	08/09/19	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.0193	1907250	08/12/19	AOAC 2013.06 (mod.)	X



Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

Units of Measure

cfu/g = Colony forming units per gram

g = Gram

µg/g = Microgram per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/0.92g = Milligram per 0.92g

mg/27.6g = Milligram per 27.6g

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager