

July 08, 2019

**GARDEN OF LIFE**

4200 Northcorp Parkway  
Palm Beach Gardens, FL 33410

Order No. 507017  
Sample No. 1029285

**SAMPLE INFORMATION**

**Description** 5690 Dr. Formulated Chocolate Mint 50 mg  
**Lot Number** W2873859 19178  
**Category (Type)** Concentrate  
**Received** July 02, 2019



**ANALYTICAL RESULTS**

**Analysis** Cannabinoid Profile ✔ Pass  
**Instrument** Liquid Chromatography Diode Array Detector (LC-DAD)  
**Method** MF12D012  
**Analysis Date** July 02, 2019 to July 08, 2019

Analyte	mg/g	%	mg/ml	mg/serving	mg/unit	Status
Total THC	ND	ND	ND	ND	ND	Pass
Total CBD	55.65	5.565	52.2442	52.2442	1567.33	-
<b>Label Claims</b>	N/P					
<b>Measured Serving Weight (g)</b>	0.9388					
<b>Servings / Unit</b>	30					
<b>mg/ml Conversion Factor</b>	0.9388					

Reported by  
**Anresco, Inc.**

Limit of Quantitation: 1.0 mg/g  
Limit of Detection: 0.4 mg/g  
ND = None Detected  
<LOQ = Below Limit of Quantitation  
<LOD = Below Limit of Detection

  
  
Mark Rosasco  
Analyst

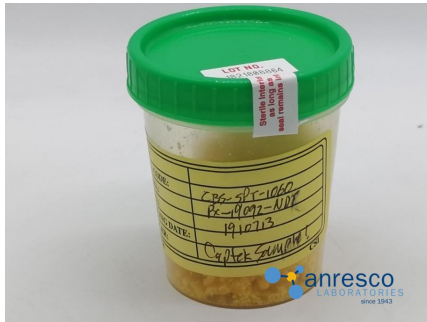
July 08, 2019

**ANALYZED BY:**

Anresco Laboratories  
1375 Van Dyke Avenue,  
San Francisco, CA 94124  
C8-18-0000020-TEMP

**CLIENT:**

Garden of Life  
4200 Northcorp Parkway  
Palm Beach Gardens, FL 33410



**SAMPLE INFORMATION**

**Sample No.:** 1025711  
**Product Name:** Whole Plant Hemp Oil Extract  
**Matrix:** Concentrate (Other)  
**Batch #:** PX-19092-NDT

**Date Received:** 04/19/2019  
**Date Reported:** 04/30/2019

**TEST SUMMARY**

**Cannabinoid Profile:**  
**Microbiological Screen:**  
**Pesticide Residue Screen:** ✔ Pass

**Terpenoid Profile:**  
**Residual Solvent Screen:** ✔ Pass  
**Heavy Metal Screen:** ✔ Pass  
**Other Analyses:** ✔ Pass  
**Overall:** ✔ Pass

**CANNABINOID PROFILE**

04/23/2019

**Method:** American Herbal Pharmacopoeia  
**Instrument:** Liquid Chromatography Diode Array Detector (LC-DAD)  
**Limit of Quantitation** 1.0 mg/g  
**Limit of Detection** 0.4 mg/g

Analyte	mg/g	mg/g (dry)	% (dry)	Listed Value (mg/g)	% Difference	Status
δ8 THC	ND	ND	ND	-	-	-
δ9 THC	ND	ND	ND	-	-	-
THCV	1.4	1.42219	0.142	-	-	-
THCVA	ND	ND	ND	-	-	-
THCA	ND	ND	ND	-	-	-
CBD	883.9	897.907	89.791	-	-	-
CBDA	ND	ND	ND	-	-	-
CBC	2.0	2.03169	0.203	-	-	-
CBCA	ND	ND	ND	-	-	-
CBDV	4.0	4.06339	0.406	-	-	-
CBG	ND	ND	ND	-	-	-
CBGA	ND	ND	ND	-	-	-
CBN	ND	ND	ND	-	-	-
Total THC	ND	ND	ND	-	-	-
Total CBD	883.9	897.907	89.791	-	-	-
Total Cannabinoids	891.3	905.425	90.543	-	-	-
Total Active Cannabinoids	891.3	905.425	90.543	-	-	-

**Label Claims** N/P

**TERPENOID PROFILE**

04/23/2019

**Method:** American Herbal Pharmacopoeia  
**Instrument:** Gas Chromatography Mass Spectrometry (GC/MS)

Terpene	mg/g	%	Listed Value	% Difference	Status
α-Pinene	0.385	0.0385	-	-	-
Isopulegol	ND	ND	-	-	-
Camphene	0.032	0.0032	-	-	-
Menthol	ND	ND	-	-	-
β-Myrcene	1.514	0.1514	-	-	-
(-)-Borneol	0.038	0.0038	-	-	-
β-Pinene	0.165	0.0165	-	-	-
Terpineol	0.201	0.0201	-	-	-
δ-3-Carene	ND	ND	-	-	-
Citronellol	ND	<LOQ	-	-	-
Limonene	0.398	0.0398	-	-	-
Geraniol	ND	<LOQ	-	-	-
α-Terpinene	ND	<LOQ	-	-	-
β-Caryophyllene	1.892	0.1892	-	-	-
trans-beta-Ocimene	0.059	0.0059	-	-	-
α-Humulene	0.586	0.0586	-	-	-
cis-beta-Ocimene	0.133	0.0133	-	-	-
cis-Nerolidol	ND	ND	-	-	-
p-Cymene	ND	ND	-	-	-
trans-Nerolidol	0.047	0.0047	-	-	-

Terpene	mg/g	%	Listed Value	% Difference	Status
Eucalyptol	0.016	0.0016	-	-	-
Guaiol	1.381	0.1381	-	-	-
γ-Terpinene	ND	<LOQ	-	-	-
Caryophyllene Oxide	0.027	0.0027	-	-	-
Terpinolene	ND	<LOQ	-	-	-
α-Bisabolol	1.661	0.1661	-	-	-
Linalool	0.276	0.0276	-	-	-
Eudesmol	1.238	0.1238	-	-	-
<b>Total Terpenes</b>	<b>10.049</b>	<b>1.0049</b>	<b>-</b>	<b>-</b>	<b>-</b>

## MICROBIOLOGICAL SCREEN

04/23/2019

Analysis	Method	Findings	Limit	Status
SPC	AOAC 2015.13	<10	NA	-
Yeast	AOAC 2014.05	<10	NA	-
Mold	AOAC 2014.05	<10	NA	-
Coliforms	AOAC 991.14	<10	NA	-
E. coli	AOAC 991.14	<10	NA	-

### Comments:

 Salmonella AOAC 2016.01 - Negative/1g  
 Staph AOAC 2003.07 - <10 cfu/g

## PESTICIDE RESIDUE SCREEN ✔ Pass

04/23/2019

**Method:** MF 21P030

**Instrument:** Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)

Analyte	LOD / LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
Abamectin	0.04/0.10	ND	0.1	Pass
Acephate	0.04/0.10	ND	0.1	Pass
Acequinocyl	0.04/0.10	ND	0.1	Pass
Acetamiprid	0.04/0.10	ND	0.1	Pass
Aldicarb	0.04/0.10	ND	0.0	Pass
Azoxystrobin	0.04/0.10	ND	0.1	Pass
Bifenazate	0.04/0.10	ND	0.1	Pass
Bifenthrin	0.20/0.50	0.0475	3.0	Pass
Boscalid	0.04/0.10	ND	0.1	Pass
Captan	0.25/0.70	ND	0.7	Pass
Carbaryl	0.20/0.50	ND	0.5	Pass
Carbofuran	0.04/0.10	ND	0.0	Pass
Chlorantraniliprole	0.04/0.10	ND	10.0	Pass
Chlordane	0.04/0.10	ND	0.0	Pass
Chlorfenapyr	0.04/0.10	ND	0.0	Pass
Chlorpyrifos	0.04/0.10	ND	0.0	Pass
Clofentezine	0.04/0.10	ND	0.1	Pass
Coumaphos	0.04/0.10	ND	0.0	Pass
Cyfluthrin	0.70/2.00	ND	2.0	Pass
Cypermethrin	0.35/1.00	ND	1.0	Pass
Daminozide	0.04/0.10	ND	0.0	Pass
DDVP (Dichlorvos)	0.04/0.10	ND	0.0	Pass
Diazinon	0.04/0.10	ND	0.1	Pass
Dimethoate	0.04/0.10	ND	0.0	Pass
Dimethomorph	0.04/0.10	ND	2.0	Pass
Ethoprop(hos)	0.04/0.10	ND	0.0	Pass
Etofenprox	0.04/0.10	ND	0.0	Pass
Etoxazole	0.04/0.10	ND	0.1	Pass
Fenhexamid	0.04/0.10	ND	0.1	Pass
Fenoxycarb	0.04/0.10	ND	0.0	Pass
Fenpyroximate	0.04/0.10	ND	0.1	Pass
Fipronil	0.04/0.10	ND	0.0	Pass
Flonicamid	0.04/0.10	ND	0.1	Pass
Fludioxanil	0.04/0.10	ND	0.1	Pass
Hexythiazox	0.04/0.10	ND	0.1	Pass
Imazalil	0.04/0.10	ND	0.0	Pass
Imidacloprid	0.04/0.10	ND	5.0	Pass
Kresoxim Methyl	0.04/0.10	ND	0.1	Pass
Malathion	0.20/0.50	ND	0.5	Pass
Metalaxyl	0.04/0.10	ND	2.0	Pass
Methiocarb	0.04/0.10	ND	0.0	Pass
Methomyl	0.04/1.00	ND	1.0	Pass
Methyl parathion	0.04/0.10	ND	0.0	Pass
Mevinphos	0.04/0.10	ND	0.0	Pass
Myclobutanil	0.04/0.10	ND	0.1	Pass
Naled	0.50/1.50	ND	0.1	Pass
Oxamyl	0.20/0.50	ND	0.5	Pass
Pacllobutrazol	0.04/0.10	ND	0.0	Pass
Pentachloronitrobenzene	0.04/0.10	ND	0.1	Pass
Permethrins	0.20/0.50	ND	0.5	Pass
Phosmet	0.04/0.10	ND	0.1	Pass

Analyte	LOD / LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
Piperonyl Butoxide	0.04/0.10	ND	3.0	Pass
Prallethrin	0.50/1.50	ND	0.1	Pass
Propiconazole	0.04/0.10	ND	0.1	Pass
Propoxur	0.04/0.10	ND	0.0	Pass
Pyrethrins	0.20/0.50	ND	0.5	Pass
Pyridaben	0.04/0.10	ND	0.1	Pass
Spinetoram	0.04/0.10	ND	0.1	Pass
Spinosad	0.04/0.10	ND	0.1	Pass
Spiromesifen	0.04/0.10	ND	0.1	Pass
Spirotetramat	0.04/0.10	ND	0.1	Pass
Spiroxamine	0.04/0.10	ND	0.0	Pass
Tebuconazole	0.04/0.10	ND	0.1	Pass
Thiacloprid	0.04/0.10	ND	0.0	Pass
Thiamethoxam	0.35/1.00	ND	5.0	Pass
Trifloxystrobin	0.04/0.10	ND	0.1	Pass
Acetochlor	0.04-0.20 / 0.1-0.5	ND	-	-
Alachlor	0.04-0.20 / 0.1-0.5	ND	-	-
Aldicarb Sulfone	0.04-0.20 / 0.1-0.5	ND	-	-
Aldicarb sulfoxide*	0.04-0.20 / 0.1-0.5	ND	-	-
Aldrin*	0.04-0.20 / 0.1-0.5	ND	-	-
Atrazine	0.04-0.20 / 0.1-0.5	ND	-	-
Benfluralin	0.04-0.20 / 0.1-0.5	ND	-	-
BHC alpha	0.04-0.20 / 0.1-0.5	ND	-	-
BHC beta	0.04-0.20 / 0.1-0.5	ND	-	-
Bitertanol	0.04-0.20 / 0.1-0.5	ND	-	-
Buprofezin	0.04-0.20 / 0.1-0.5	ND	-	-
Carbendazim (MBC)	0.04-0.20 / 0.1-0.5	ND	-	-
Carfentrazone ethyl	0.04-0.20 / 0.1-0.5	ND	-	-
Chlorobenzilate	0.04-0.20 / 0.1-0.5	ND	-	-
Chlorotoluron	0.04-0.20 / 0.1-0.5	ND	-	-
Chlorpropham	0.04-0.20 / 0.1-0.5	ND	-	-
Chlorpyrifos methyl	0.04-0.20 / 0.1-0.5	ND	-	-
Chlorthiophos	0.04-0.20 / 0.1-0.5	ND	-	-
Clethodim	0.04-0.20 / 0.1-0.5	ND	-	-
Clomazone	0.04-0.20 / 0.1-0.5	ND	-	-
Clothianidin	0.04-0.20 / 0.1-0.5	ND	-	-
Cyazofamid*	0.04-0.20 / 0.1-0.5	ND	-	-
Cymoxanil*	0.04-0.20 / 0.1-0.5	ND	-	-
Cyprodinil*	0.04-0.20 / 0.1-0.5	ND	-	-
Cyromazine	0.04-0.20 / 0.1-0.5	ND	-	-
DCPA (Dacthal)	0.04-0.20 / 0.1-0.5	ND	-	-
Diallate	0.04-0.20 / 0.1-0.5	ND	-	-
Dieldrin	0.04-0.20 / 0.1-0.5	ND	-	-
Diflubenzuron	0.04-0.20 / 0.1-0.5	ND	-	-
Dimethachlor	0.04-0.20 / 0.1-0.5	ND	-	-
Diniconazole	0.04-0.20 / 0.1-0.5	ND	-	-
Dinotefuran	0.04-0.20 / 0.1-0.5	ND	-	-
Diphenamid	0.04-0.20 / 0.1-0.5	ND	-	-
Diphenylamine (DPA)	0.04-0.20 / 0.1-0.5	ND	-	-
Diuron	0.04-0.20 / 0.1-0.5	ND	-	-
Esfenvalerate	0.04-0.20 / 0.1-0.5	ND	-	-
Ethalfuralin	0.04-0.20 / 0.1-0.5	ND	-	-
Ethylan	0.04-0.20 / 0.1-0.5	ND	-	-
Etridazole*	0.04-0.20 / 0.1-0.5	ND	-	-
Fenarimol	0.04-0.20 / 0.1-0.5	ND	-	-
Fenbuconazole	0.04-0.20 / 0.1-0.5	ND	-	-
Fenpropimorph	0.04-0.20 / 0.1-0.5	ND	-	-
Fenthion	0.04-0.20 / 0.1-0.5	ND	-	-
Fenvalerate	0.04-0.20 / 0.1-0.5	ND	-	-
Fluazifop-P-butyl	0.04-0.20 / 0.1-0.5	ND	-	-
Flubendiamide	0.04-0.20 / 0.1-0.5	ND	-	-
Fluchloralin	0.04-0.20 / 0.1-0.5	ND	-	-
Flucythrinate	0.04-0.20 / 0.1-0.5	ND	-	-
Fluoxastrobin	0.04-0.20 / 0.1-0.5	ND	-	-
Flusilazole	0.04-0.20 / 0.1-0.5	ND	-	-
Flutolanil	0.04-0.20 / 0.1-0.5	ND	-	-
Flutriafol	0.04-0.20 / 0.1-0.5	ND	-	-
Fonofos*	0.04-0.20 / 0.1-0.5	ND	-	-
Formetanate Hydrochloride	0.04-0.20 / 0.1-0.5	ND	-	-
Heptachlor	0.04-0.20 / 0.1-0.5	ND	-	-
Hexachlorobenzene	0.04-0.20 / 0.1-0.5	ND	-	-
Hexaconazole	0.04-0.20 / 0.1-0.5	ND	-	-
Hexazinone	0.04-0.20 / 0.1-0.5	ND	-	-
3-Hydroxycarbofuran	0.04-0.20 / 0.1-0.5	ND	-	-
Indoxacarb*	0.04-0.20 / 0.1-0.5	ND	-	-
Isazophos	0.04-0.20 / 0.1-0.5	ND	-	-
Isopropalin	0.04-0.20 / 0.1-0.5	ND	-	-
Isoproturon	0.04-0.20 / 0.1-0.5	ND	-	-

Analyte	LOD / LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
Lindane	0.04-0.20 / 0.1-0.5	ND	-	-
Linuron*	0.04-0.20 / 0.1-0.5	ND	-	-
Mandipropamid	0.04-0.20 / 0.1-0.5	ND	-	-
Methamidophos	0.04-0.20 / 0.1-0.5	ND	-	-
Methoxychlor*	0.04-0.20 / 0.1-0.5	ND	-	-
4-4'-Methoxychlor olefin	0.04-0.20 / 0.1-0.5	ND	-	-
Methoxyfenozide	0.04-0.20 / 0.1-0.5	ND	-	-
Metolachlor	0.04-0.20 / 0.1-0.5	ND	-	-
MGK 264*	0.04-0.20 / 0.1-0.5	ND	-	-
Mirex*	0.04-0.20 / 0.1-0.5	ND	-	-
Novaluron	0.04-0.20 / 0.1-0.5	ND	-	-
5-OH Thiabendazole*	0.04-0.20 / 0.1-0.5	ND	-	-
Omethoate*	0.04-0.20 / 0.1-0.5	ND	-	-
Oxadiazon	0.04-0.20 / 0.1-0.5	ND	-	-
Oxyflourfen	0.04-0.20 / 0.1-0.5	ND	-	-
Parathion	0.04-0.20 / 0.1-0.5	ND	-	-
Pebulate*	0.04-0.20 / 0.1-0.5	ND	-	-
Penconazole	0.04-0.20 / 0.1-0.5	ND	-	-
Pendimethalin	0.04-0.20 / 0.1-0.5	0.049	-	-
Pentachloroaniline	0.04-0.20 / 0.1-0.5	ND	-	-
Pentachloroanisole	0.04-0.20 / 0.1-0.5	ND	-	-
Pentachlorobenzene	0.04-0.20 / 0.1-0.5	ND	-	-
Pentachlorobenzonitrile	0.04-0.20 / 0.1-0.5	ND	-	-
2-Phenylphenol	0.04-0.20 / 0.1-0.5	ND	-	-
Pirimicarb	0.04-0.20 / 0.1-0.5	ND	-	-
Pirimiphos-ethyl	0.04-0.20 / 0.1-0.5	ND	-	-
Pirimiphos methyl	0.04-0.20 / 0.1-0.5	ND	-	-
Pretilachlor	0.04-0.20 / 0.1-0.5	0.023	-	-
Prochloraz*	0.04-0.20 / 0.1-0.5	ND	-	-
Procymidone	0.04-0.20 / 0.1-0.5	ND	-	-
Propamocarb	0.04-0.20 / 0.1-0.5	ND	-	-
Propargite	0.04-0.20 / 0.1-0.5	ND	-	-
Propisochlor	0.04-0.20 / 0.1-0.5	ND	-	-
Propyzamide	0.04-0.20 / 0.1-0.5	ND	-	-
Prothiofos	0.04-0.20 / 0.1-0.5	ND	-	-
Pymetrozine	0.04-0.20 / 0.1-0.5	ND	-	-
Pyraclostrobin	0.04-0.20 / 0.1-0.5	ND	-	-
Pyrimethanil	0.04-0.20 / 0.1-0.5	ND	-	-
Pyriproxyfen	0.04-0.20 / 0.1-0.5	ND	-	-
Quinalphos	0.04-0.20 / 0.1-0.5	ND	-	-
Quintozene	0.04-0.20 / 0.1-0.5	ND	-	-
Sulfentrazone	0.04-0.20 / 0.1-0.5	ND	-	-
Sulfotep	0.04-0.20 / 0.1-0.5	ND	-	-
Tau-Fluvalinate	0.04-0.20 / 0.1-0.5	ND	-	-
Tebufenozide	0.04-0.20 / 0.1-0.5	ND	-	-
Tecnazene	0.04-0.20 / 0.1-0.5	ND	-	-
Tefluthrin	0.04-0.20 / 0.1-0.5	ND	-	-
Terbutylazine	0.04-0.20 / 0.1-0.5	ND	-	-
Tetrachloroaniline	0.04-0.20 / 0.1-0.5	ND	-	-
Tetradifon	0.04-0.20 / 0.1-0.5	ND	-	-
Thiobencarb	0.04-0.20 / 0.1-0.5	ND	-	-
Tolclofos-methyl	0.04-0.20 / 0.1-0.5	ND	-	-
Transfluthrin	0.04-0.20 / 0.1-0.5	ND	-	-
Triadimefon	0.04-0.20 / 0.1-0.5	ND	-	-
Triallate	0.04-0.20 / 0.1-0.5	ND	-	-
Trichlorfon	0.04-0.20 / 0.1-0.5	ND	-	-
Tricyclazole	0.04-0.20 / 0.1-0.5	ND	-	-
Triflumizole	0.04-0.20 / 0.1-0.5	ND	-	-
Trifluralin	0.04-0.20 / 0.1-0.5	ND	-	-
Vamidothion	0.04-0.20 / 0.1-0.5	ND	-	-
Vinclozolin	0.04-0.20 / 0.1-0.5	ND	-	-

## RESIDUAL SOLVENT SCREEN ✔ Pass

04/23/2019

**Method:** USP OVI<467>

**Instrument:** Gas Chromatography Mass Spectrometry (GC/MS)

Analyte	LOD / LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
1,2-Dichloroethane	0.40/1.00	ND	1.0	Pass
Acetone	17/75	<LOQ	5000	Pass
Acetonitrile	1/6	ND	410	Pass
Benzene	0.40/1.00	ND	1.0	Pass
n-Butane	200/600	ND	5000	Pass
Chloroform	0.40/1.00	ND	1.0	Pass
Ethanol	22/100	ND	5000	Pass
Ethyl Acetate	9/40	ND	5000	Pass
Ethyl Ether	11/50	ND	5000	Pass
Ethylene Oxide	0.40/1.00	ND	1.0	Pass
n-Heptane	11/50	ND	5000	Pass
n-Hexane	1/5	ND	290	Pass
Isopropyl Alcohol	11/50	<LOQ	5000	Pass
Methanol	6/25	ND	3000	Pass
Methylene Chloride	0.40/1.00	ND	1.0	Pass
n-Pentane	17/75	ND	5000	Pass
Propane	125/250	ND	5000	Pass
Toluene	3/15	ND	890	Pass
Total Xylenes	1/3	ND	2170	Pass
Trichloroethylene	0.40/1.00	ND	1.0	Pass

## HEAVY METAL SCREEN ✔ Pass

04/23/2019

**Method:** MF 24E020

**Instrument:** ICP-MS

Analyte	LOD / LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
Arsenic	0.02/0.05	ND	0.2	Pass
Cadmium	0.02/0.05	ND	0.2	Pass
Mercury	0.02/0.05	ND	0.1	Pass
Lead	0.02/0.05	ND	0.5	Pass

## OTHER ANALYSES ✔ Pass

Analyte	Method	Instrument	Findings	Date Completed	Limit	Status
Moisture	AOAC 930.04	Vacuum or Forced Air Oven	1.56	04/19/2019	-	-
Water Activity	MF 14G051	Decagon	0.468	04/19/2019	0.65	Pass
Gluten	-	-	None Detected	04/24/2019	-	-

(-) = Not Tested, ND = None Detected, <LOQ = Below Limit of Quantitation, LOD = Limit of Detection

Reported by

  
Vu Lam  
Lab Co Director



Scan to verify



This report cannot be used for ODA, OHA or OLCC compliance requirements.

**Customer:** Klersun  
3448 NE Broadway St  
Portland Oregon 97232  
United States

**Product identity:** PX-19092-NDT

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 19-003591-0001-02

**Temp:** 21.3 °C

**Relinquished by:** Received by mail

### Sample Results

Individual Analyses								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Glyphosate	< LOQ		mg/kg	0.0500	1902978	04/09/19	QuPPE-method, EURL-SR	



This report cannot be used for ODA, OHA or OLCC compliance requirements.

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**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.

**Units of Measure**

mg/kg = Milligram per kilogram

% wt =  $\mu\text{g/g}$  divided by 10,000

Approved Signatory

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Derrick Tanner  
General Manager