

August 27, 2019

**GARDEN OF LIFE**

4200 Northcorp Parkway  
Palm Beach Gardens, FL 33410

Order No. 507935  
Sample No. 1032572

## SAMPLE INFORMATION

**Description** 6181 Dr. Formulated Chocolate Mint 30 mg  
**Lot Number** W2873862 19231  
**Category (Type)** Orally Consumed Concentrate (Tincture)  
**Received** August 22, 2019

## ANALYTICAL RESULTS

**Analysis** Cannabinoid Profile  
**Instrument** Liquid Chromatography Diode Array Detector (LC-DAD)  
**Method** MF12D012  
**Analysis Date** August 22, 2019 to August 27, 2019

Analyte	mg/g	%	mg/ml	Status
Total THC	ND	ND	ND	-
Total CBD	33.4	3.34	31.6966	-
<b>Label Claims</b>	30 mg CBD per serving			
<b>g/ml Conversion Factor</b>	0.949			

Reported by  
**Anresco, Inc.**  
August 27, 2019

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

## ANALYZED BY:

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

## MANUFACTURER:

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



## SAMPLE INFORMATION

**Sample No.:** 1026677  
**Product Name:** 11030021 Broad Spectrum Hemp Oil  
**Matrix:** Other  
**Batch #:** 11871724

**Date Received:** 05/10/2019  
**Date Reported:** 05/23/2019

## TEST SUMMARY

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

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

## CANNABINOID PROFILE

05/15/2019

**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	1.3	1.32	0.132	-	-	-
THCVA	ND	ND	ND	-	-	-
THCA	ND	ND	ND	-	-	-
CBD	810.6	822.44	82.244	-	-	-
CBDA	ND	ND	ND	-	-	-
CBC	1.2	1.22	0.122	-	-	-
CBCA	ND	ND	ND	-	-	-
CBDV	4.8	4.87	0.487	-	-	-
CBG	ND	ND	ND	-	-	-
CBGA	ND	ND	ND	-	-	-
CBN	ND	ND	ND	-	-	-
Total THC	ND	ND	ND	-	-	-
Total CBD	810.60	822.443	82.244	-	-	-
Total Cannabinoids	817.90	829.85	82.985	-	-	-
Total Active Cannabinoids	817.90	829.85	82.985	-	-	-

**Label Claims:** n/p

## TERPENOID PROFILE

05/14/2019

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

Terpene	mg/g	%	Listed Value	% Difference	Status
α-Pinene	0.237	0.0237	-	-	-
Isopulegol	ND	ND	-	-	-
Camphene	0.02	0.0020	-	-	-
Menthol	ND	ND	-	-	-
β-Myrcene	1.038	0.1038	-	-	-
(-)-Borneol	0.182	0.0182	-	-	-
β-Pinene	0.138	0.0138	-	-	-
Terpineol	0.468	0.0468	-	-	-
δ-3-Carene	ND	ND	-	-	-
Citronellol	ND	ND	-	-	-
Limonene	0.453	0.0453	-	-	-
Geraniol	ND	ND	-	-	-
α-Terpinene	0.047	0.0047	-	-	-
β-Caryophyllene	4.384	0.4384	-	-	-
trans-beta-Ocimene	0.061	0.0061	-	-	-
α-Humulene	1.319	0.1319	-	-	-
cis-beta-Ocimene	0.091	0.0091	-	-	-
cis-Nerolidol	ND	ND	-	-	-
p-Cymene	ND	ND	-	-	-
trans-Nerolidol	1.233	0.1233	-	-	-
Eucalyptol	0.271	0.0271	-	-	-

Terpene	mg/g	%	Listed Value	% Difference	Status
Guaiol	6.226	0.6226	-	-	-
γ-Terpinene	0.043	0.0043	-	-	-
Caryophyllene Oxide	9.136	0.9136	-	-	-
Terpinolene	0.041	0.0041	-	-	-
α-Bisabolol	18.027	1.8027	-	-	-
Linalool	0.654	0.0654	-	-	-
Eudesmol	11.353	1.1353	-	-	-
<b>Total Terpenes</b>	55.422	5.5422	-	-	-

## MICROBIOLOGICAL SCREEN

05/15/2019

Analysis	Method	Finding	Limit	Status
Salmonella	USP <62>	Negative	ND in 1g	-
SPC	USP <61	<10	NA	-
Yeast	USP <61	<10	NA	-
Mold	USP <61	<10	NA	-
Coliforms	USP <62>	Negative	NA	-
E. coli	USP <62>	Negative	NA	-
Staph	USP <62>	Negative	ND in 1g	-

## PESTICIDE RESIDUE SCREEN ✔ Pass

05/15/2019

**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)	Finding (µg/g)	Limit (µg/g)	Status
Abamectin	0.04/0.10	ND	0.3	Pass
Acephate	0.04/0.10	ND	5.0	Pass
Acequinocyl	0.04/0.10	ND	4.0	Pass
Acetamiprid	0.04/0.10	ND	5.0	Pass
Aldicarb	0.04/0.10	ND	0.04	Pass
Azoxystrobin	0.04/0.10	ND	40.0	Pass
Bifenazate	0.04/0.10	ND	5.0	Pass
Bifenthrin	0.20/0.50	ND	0.5	Pass
Boscalid	0.04/0.10	ND	10.0	Pass
Captan	0.25/0.70	ND	5.0	Pass
Carbaryl	0.20/0.50	ND	0.5	Pass
Carbofuran	0.04/0.10	ND	0.04	Pass
Chlorantraniliprole	0.04/0.10	ND	40.0	Pass
Chlordane	0.04/0.10	ND	0.04	Pass
Chlorfenapyr	0.04/0.10	ND	0.04	Pass
Chlorpyrifos	0.04/0.10	ND	0.0	Pass
Clofentezine	0.04/0.10	ND	0.5	Pass
Coumaphos	0.04/0.10	ND	0.04	Pass
Cyfluthrin	0.70/2.00	ND	1.0	Pass
Cypermethrin	0.35/1.00	ND	1.0	Pass
Daminozide	0.04/0.10	ND	0.0	Pass
DDVP (Dichlorovous)	0.04/0.10	ND	0.04	Pass
Diazinon	0.04/0.10	ND	0.2	Pass
Dimethoate	0.04/0.10	ND	0.04	Pass
Dimethomorph	0.04/0.10	ND	20.0	Pass
Ethoprop(hos)	0.04/0.10	ND	0.04	Pass
Etofenprox	0.04/0.10	ND	0.04	Pass
Etoxazole	0.04/0.10	ND	1.5	Pass
Fenhexamid	0.04/0.10	ND	10.0	Pass
Fenoxycarb	0.04/0.10	ND	0.04	Pass
Fenpyroximate	0.04/0.10	ND	2.0	Pass
Fipronil	0.04/0.10	ND	0.04	Pass
Flonicamid	0.04/0.10	ND	2.0	Pass
Fludioxanil	0.04/0.10	ND	30.0	Pass
Hexythiazox	0.04/0.10	ND	2.0	Pass
Imazalil	0.04/0.10	ND	0.04	Pass
Imidacloprid	0.04/0.10	ND	3.0	Pass
Kresoxim Methyl	0.04/0.10	ND	1.0	Pass
Malathion	0.20/0.50	ND	5.0	Pass
Metalaxyl	0.04/0.10	ND	15.0	Pass
Methiocarb	0.04/0.10	ND	0.04	Pass
Methomyl	0.04/1.00	ND	0.1	Pass
Methyl parathion	0.04/0.10	ND	0.04	Pass
Mevinphos	0.04/0.10	ND	0.04	Pass
Myclobutanil	0.04/0.10	ND	9.0	Pass
Naled	0.50/1.50	ND	0.5	Pass
Oxamyl	0.20/0.50	ND	0.2	Pass
Paclobutrazol	0.04/0.10	ND	0.04	Pass
Pentachloronitrobenzene	0.04/0.10	ND	0.2	Pass
Permethrins	0.20/0.50	ND	20.0	Pass
Phosmet	0.04/0.10	ND	0.2	Pass
Piperonyl Butoxide	0.04/0.10	ND	8.0	Pass

Analyte	LOD / LOQ (µg/g)	Finding (µg/g)	Limit (µg/g)	Status
Prallethrin	0.50/1.50	ND	0.4	Pass
Propiconazole	0.04/0.10	ND	20.0	Pass
Propoxur	0.04/0.10	ND	0.04	Pass
Pyrethrins	0.20/0.50	ND	1.0	Pass
Pyridaben	0.04/0.10	ND	3.0	Pass
Spinetoram	0.04/0.10	ND	3.0	Pass
Spinosad	0.04/0.10	ND	3.0	Pass
Spiromesifen	0.04/0.10	ND	12.0	Pass
Spirotetramat	0.04/0.10	ND	13.0	Pass
Spiroxamine	0.04/0.10	ND	0.04	Pass
Tebuconazole	0.04/0.10	ND	2.0	Pass
Thiacloprid	0.04/0.10	ND	0.04	Pass
Thiamethoxam	0.35/1.00	ND	4.5	Pass
Trifloxystrobin	0.04/0.10	ND	30.0	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	-	-
Lindane	0.04-0.20 / 0.1-0.5	ND	-	-

Analyte	LOD / LOQ (µg/g)	Finding (µg/g)	Limit (µg/g)	Status
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	ND	-	-
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	ND	-	-
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	-	-

## HEAVY METAL SCREEN ✔ Pass

05/13/2019

Method: MF 24E020

Instrument: ICP-MS

Analyte	LOD / LOQ (µg/g)	Finding (µg/g)	Limit (µg/g)	Status
Arsenic	0.02/0.05	ND	1.5	Pass
Cadmium	0.02/0.05	ND	0.5	Pass
Mercury	0.02/0.05	ND	3.0	Pass
Lead	0.02/0.05	0.07	0.5	Pass

## MYCOTOXIN SCREEN ✔ Pass

05/15/2019

**Method:** MF 21P030

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

Analyte	LOD / LOQ (µg/kg)	Finding (µg/kg)	Limit (µg/kg)	Status
Total Aflatoxins	10/20	ND	20	Pass
Ochratoxin A	10/20	ND	20	Pass

## OTHER ANALYSES

Analyte	Method	Instrument	Finding	Date Completed	Limit	Status
Moisture	AOAC 930.04	Vacuum or Forced Air Oven	1.44	05/13/2019	-	-
Water Activity	MF 14G051	Decagon	0.404	05/13/2019	0.85	Pass
Glyphosate	Anresco MF 2P030	LC-MS/MS	None Detected	05/15/2019	-	-
AMPA	Anresco MF 2P030	LC-MS/MS	None Detected	05/15/2019	-	-

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

Reported by



Eric Tam  
Senior Chemist



Scan to verify

RESEARCH & DEVELOPMENT



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-19100-NDT  
**Client/Metric ID:** .  
**Sample Date:** 04/12/19 13:00  
**Laboratory ID:** 19-004145-0003  
**Relinquished by:** Received By Mail  
**Temp:** 18.8 °C

### Sample Results

#### Individual Analyses

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Glyphosate	< LOQ		mg/kg	0.0500	1903340	04/18/19	QuPPE-method, EURL-SR	X



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

**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.

**Glossary of Qualifiers**

**Glossary of Qualifiers**

X: Not ORELAP accredited.

**Units of Measure**

mg/kg = Milligram per kilogram

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

Approved Signatory

Derrick Tanner  
General Manager