

# CERTIFICATE OF ANALYSIS

Sample Name: **B105 Spectrum EQ Oil**  
 Steep Hill ID: AR71377  
 Batch ID: O102  
 State ID:  
 Sample Type: Oil  
 Date Received: 8/7/2019  
 Date Reported: 8/14/2019  
 Pkg. Volume: 15 mL  
 # of Servings: 15  
 Density: 1.04 g/mL

Customer: Scalability LLC

**Cannabinoid Results – Standard Potency** **8/13/2019**

Standard potency analysis utilizing Ultra High Performance Liquid Chromatography (UHPLC; SOP-068-AR)

Analyte	%	mg/g	mg/mL	mg/pkg	mg/serv	LOD mg/g	LOQ mg/g
CBD	0.55	5.5	5.7	86	5.7	0.022	0.072
CBDA	1.55	15.5	16.2	240	16.2	0.021	0.071
THC	0.044	0.44	0.46	6.9	0.46	0.024	0.080
THCA	ND	ND	ND	ND	ND	0.0102	0.034
Total	2.1	21	22	330	22		

Total THC	Total CBD
0.044 %	1.91 %
0.44 mg/g	19.1 mg/g
0.46 mg/mL	19.9 mg/mL
6.9 mg/pkg	300 mg/pkg
0.46 mg/serv	19.9 mg/serv

**Moisture Results** NT

Moisture content analysis utilizing Moisture Balance (MB; SOP-055-AR)

Analyte	%
Moisture	NT

**Water Activity Results** NT

Water activity analysis utilizing Water Activity Meter (WAM; SOP-059-AR) - **Limit units: Aw**

Analyte	Pass/Fail	Aw	Limit
Water Activity		NT	NT

LOD: Limit of Detection  
 LOQ: Limit of Quantitation  
 NT: Not Tested  
 ND: Not Detected



Brandon Thornton  
 Pharm D. Co-Owner & CEO  
 Date: 8/15/2019

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**Residual Pesticides Results**

**Pass**

**8/14/2019**

Residual pesticide analysis utilizing Liquid and Gas Chromatography – Mass Spectrometry (LC-MSMS + GC-MSMS); SOP-070-AR + SOP-073-AR) - **Limit units: ug/g = ppm**

Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g	Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g
Abamectin	Pass	ND	0.5	0.43	1.43	Imazail	Pass	ND	0.2	0.055	0.183
Acephate	Pass	ND	0.4	0.033	0.111	Imidacloprid	Pass	ND	0.4	0.026	0.086
Acequinocyl	Pass	ND	2	0.48	1.59	Kresoxim-methyl	Pass	ND	0.4	0.023	0.077
Acetamiprid	Pass	ND	0.2	0.034	0.112	Malathion	Pass	ND	0.2	0.0159	0.053
Aldicarb	Pass	ND	0.4	0.21	0.71	Metalaxyl	Pass	ND	0.2	0.024	0.078
Azoxystrobin	Pass	ND	0.2	0.030	0.101	Methiocarb	Pass	ND	0.2	0.023	0.075
Bifenazate	Pass	ND	0.2	0.021	0.070	Methomyl	Pass	ND	0.4	0.034	0.113
Bifenthrin	Pass	ND	0.2	0.170	0.57	Methyl Parathion	Pass	ND	0.2	0.038	0.111
Boscalid	Pass	ND	0.4	0.054	0.180	MGK-264	Pass	ND	0.2	0.0050	0.0126
Carbaryl	Pass	ND	0.2	0.020	0.067	Myclobutanil	Pass	ND	0.2	0.028	0.095
Carbofuran	Pass	ND	0.2	0.024	0.079	Naled	Pass	ND	0.5	0.051	0.169
Chlorantraniliprole	Pass	ND	0.2	0.037	0.123	Oxamyl	Pass	ND	1	0.048	0.159
Chlorfenapyr	Pass	ND	1	0.038	0.111	Paclobutrazol	Pass	ND	0.4	0.040	0.134
Chlorpyrifos	Pass	ND	0.2	0.034	0.114	Permethrins	Pass	ND	0.2	0.035	0.103
Clofentezine	Pass	ND	0.2	0.047	0.158	Phosmet	Pass	ND	0.2	0.036	0.118
Cyfluthrin	Pass	ND	1	0.058	0.169	Piperonyl Butoxide	Pass	ND	2	0.023	0.078
Cypermethrin	Pass	ND	1	0.058	0.174	Prallethrin	Pass	ND	0.2	0.077	0.26
Daminozide	Pass	ND	1	0.069	0.23	Propiconazole	Pass	ND	0.4	0.0166	0.055
Diazinon	Pass	ND	0.1	0.024	0.082	Propoxur	Pass	ND	0.2	0.0182	0.061
DDVP (Dichlorvos)	Pass	ND	0.2	0.032	0.107	Pyrethrins	Pass	ND	1	0.026	0.086
Dimethoate	Pass	ND	0.2	0.034	0.113	Pyridaben	Pass	ND	0.2	0.039	0.129
Ethoprophos	Pass	ND	0.2	0.033	0.110	Spinosad	Pass	ND	0.2	0.044	0.146
Etofenprox	Pass	ND	0.4	0.046	0.155	Spiromesifen	Pass	ND	0.2	0.038	0.127
Etoxazole	Pass	ND	0.2	0.038	0.125	Spirotetramat	Pass	ND	0.2	0.0185	0.062
Fenoxycarb	Pass	ND	0.2	0.030	0.099	Spiroxamine	Pass	ND	0.4	0.057	0.189
Fenpyroximate	Pass	ND	0.4	0.024	0.080	Tebuconazole	Pass	ND	0.4	0.0168	0.056
Fipronil	Pass	ND	0.4	0.047	0.156	Thiacloprid	Pass	ND	0.2	0.0197	0.066
Flonicamid	Pass	ND	1	0.060	0.198	Thiamethoxam	Pass	ND	0.2	0.0198	0.066
Fludioxonil	Pass	ND	0.4	0.056	0.188	Trifloxystrobin	Pass	ND	0.2	0.024	0.081
Hexythiazox	Pass	ND	1	0.025	0.083						

**Microbial Impurities Results**

**NT**

Microbiological screening utilizing 3M Petrifilm (SOP-700-AR) - **Limit units:**

**CFU/g**

Analyte	Pass/Fail	Result	Limit	LOQ
Coliform		NT	NT	NT
General E. coli		NT	NT	NT

**Heavy Metals Results**

**NT**

Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072-AR) - **Limit units: µg/kg**

Analyte	Pass/Fail	µg/kg	Limit	LOD µg/kg	LOQ µg/kg
Arsenic	NT	NT	NT	NT	NT
Cadmium	NT	NT	NT	NT	NT
Lead	NT	NT	NT	NT	NT
Mercury	NT	NT	NT	NT	NT



Brandon Thornton  
Pharm D. Co-Owner & CEO  
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**Residual Solvents Results** NT

Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography – Mass Spectrometry (HS-GC-MS; SOP-010-AR) - **Limit units: µg/g**

Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g	Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g
1-Butanol	NT	NT	NT	NT	NT	Dimethyl Sulfoxide	NT	NT	NT	NT	NT
1-Pentanol	NT	NT	NT	NT	NT	Ethanol	NT	NT	NT	NT	NT
1-Propanol	NT	NT	NT	NT	NT	Ethyl Acetate	NT	NT	NT	NT	NT
1,2-Dimethoxyethane	NT	NT	NT	NT	NT	Ethyl Ether	NT	NT	NT	NT	NT
1,4-Dioxane	NT	NT	NT	NT	NT	Ethylene Glycol	NT	NT	NT	NT	NT
2-Butanol	NT	NT	NT	NT	NT	Ethylene Oxide	NT	NT	NT	NT	NT
2-Butanone	NT	NT	NT	NT	NT	Heptane	NT	NT	NT	NT	NT
2-Ethoxyethanol	NT	NT	NT	NT	NT	n-Hexane	NT	NT	NT	NT	NT
2-Methylbutane	NT	NT	NT	NT	NT	Isopropyl Acetate	NT	NT	NT	NT	NT
2-Methylpentane	NT	NT	NT	NT	NT	Methanol	NT	NT	NT	NT	NT
2-Propanol (IPA)	NT	NT	NT	NT	NT	Methylpropane	NT	NT	NT	NT	NT
2,2-Dimethylbutane	NT	NT	NT	NT	NT	N,N-Dimethylacetamide	NT	NT	NT	NT	NT
2,3-Dimethylbutane	NT	NT	NT	NT	NT	N,N-Dimethylformamide	NT	NT	NT	NT	NT
3-Methylpentane	NT	NT	NT	NT	NT	Pentane	NT	NT	NT	NT	NT
Acetone	NT	NT	NT	NT	NT	Propane	NT	NT	NT	NT	NT
Acetonitrile	NT	NT	NT	NT	NT	Pyridine	NT	NT	NT	NT	NT
Benzene	NT	NT	NT	NT	NT	Sulfolane	NT	NT	NT	NT	NT
Butane	NT	NT	NT	NT	NT	Tetrahydrofuran	NT	NT	NT	NT	NT
Cumene	NT	NT	NT	NT	NT	Toluene	NT	NT	NT	NT	NT
Cyclohexane	NT	NT	NT	NT	NT	Xylenes	NT	NT	NT	NT	NT
Dichloromethane	NT	NT	NT	NT	NT						



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