



261 Mountain View Dr  
Colchester, VT 05446  
License #: TLAB0030  
802-767-7256  
info@onwardanalytics.biz

# Certificate of Analysis



**Client Name:** Tilia Processing LLC  
**License Number:** MANU0012



**Sample ID:** VT12648  
**Sample Name:** MANU0012-21  
**Sample Lot:** MANU0012-21  
**Sample Matrix:** Solvent Extraction Concentrates  
**Date Received:** 8/23/2024  
**Date Reported:** 8/28/2024  
**Date Tested:** 8/23/2024



Total Cannabinoids		
	%	mg/g
Total THC:	77.468	774.677
Total CBD:	--	--
Total Cannabinoids:	80.682	806.821

Total theoretical CBD % = (CBD%) + (CBDA% \* 0.877)  
Total theoretical THC % = (delta-9-THC%) + (THCA% \* 0.877)

## Potency

Standard potency analysis utilizing High Performance Liquid Chromatography (HPLC; SOP-024-OA) | Test ID: #38623

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	0.6904	6.904	0.0003	0.0040
CBCA	ND	ND	0.0002	0.0040
CBD	< LOQ	< LOQ	0.0008	0.0040
CBDA	ND	ND	0.0002	0.0040
CBDV	ND	ND	0.0008	0.0040
CBDVA	ND	ND	0.0001	0.0040
CBG	1.2375	12.375	0.0009	0.0040
CBGA	ND	ND	0.0001	0.0040
CBN	0.9758	9.758	0.0004	0.0040
CBNA	ND	ND	0.0002	0.0040
D8 THC	ND	ND	0.0012	0.0040
D9 THC	75.2524	752.524	0.0016	0.0049
D10 THC	ND	ND	0.0004	0.0040
THCA	2.526	25.26	0.0002	0.0040
THCV	< LOQ	< LOQ	0.0016	0.0049
THCVA	ND	ND	0.0002	0.0040

*Callie Chapman*

Callie Chapman  
Lab Director  
8/28/2024

Rev. 1 Initial Release

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**Total Terpenes (%) : 3.8916**

## Dominant Terpenes (%)

alpha-Terpinolene	1.4697
Limonene	0.6687
Myrcene	0.5592
Ocimene	0.3244
beta-Pinene	0.1993

## Terpenes

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-OA) | Test ID: #38624

Analyte	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
3-Carene	0.068	0.68	0.000002	0.001
alpha-Bisabolol	0.0579	0.579	0.000003	0.001
alpha-Humulene	0.0332	0.332	0.000002	0.001
alpha-Pinene	0.1207	1.207	0.000001	0.001
alpha-Terpinene	0.0652	0.652	0.000001	0.001
alpha-Terpinolene	1.4697	14.697	0.000004	0.001
beta-caryophyllene	0.1373	1.373	0.000004	0.001
beta-Pinene	0.1993	1.993	0.000002	0.001
Camphene	0.0105	0.105	0.000001	0.001
Caryophyllene Oxide	ND	ND	0.000011	0.001
Eucalyptol	< LOQ	< LOQ	0.000002	0.001
gamma-Terpinene	0.0419	0.419	0.000002	0.001
Geraniol	ND	ND	0.000008	0.003
Guaiol	0.0836	0.836	0.000007	0.001
Isopulegol	ND	ND	0.000005	0.001
Isopropyl Toluene	0.0101	0.101	0.000003	0.001
Limonene	0.6687	6.687	0.000002	0.001
Linalool	0.0197	0.197	0.000003	0.001
Nerolidol	0.0222	0.222	0.000007	0.001
Myrcene	0.5592	5.592	0.000003	0.001
Ocimene	0.3244	3.244	0.000002	0.001
<b>Total Terpenes</b>	<b>3.8916</b>	<b>38.916</b>		

*Callie Chapman*

Callie Chapman  
Lab Director  
8/28/2024

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## Certificate of Analysis



**Client Name:** Tilia Processing LLC

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**Sample ID:** VT11793

**Sample Name:** MANU0012-021

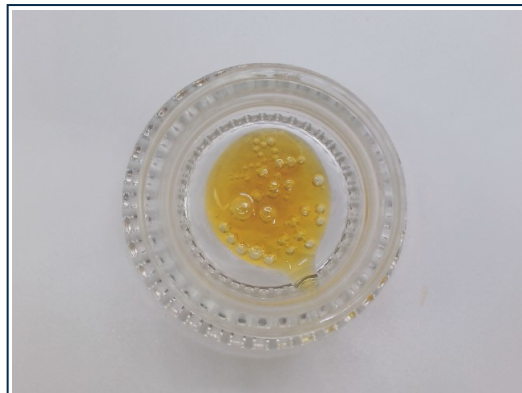
**Sample Lot:** MANU0012-021

**Sample Matrix:** Solvent Extraction Concentrates

**Date Received:** 7/25/2024

**Date Reported:** 8/5/2024

**Date Tested:** 8/5/2024



### Heavy Metals

**PASS**

Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072-OA) - **Limit units: ppm** | Test ID: #35718

Analyte	Pass/Fail	Result (ppm)	Limit (ppm)	LOD (ppm)	LOQ (ppm)
Arsenic	PASS	< LOQ	1.500	0.0000260	0.00050
Cadmium	PASS	< LOQ	0.500	0.0000004	0.00050
Lead	PASS	< LOQ	1.000	0.0000190	0.00050
Mercury	PASS	< LOQ	1.500	0.0000039	0.00050

Callie Chapman  
Lab Director  
8/5/2024

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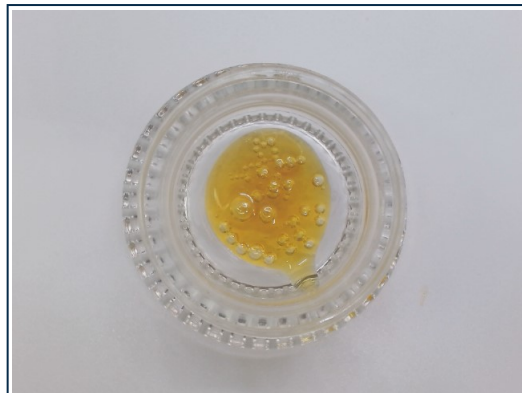
**Sample Lot:** MANU0012-021

**Sample Matrix:** Solvent Extraction Concentrates

**Date Received:** 7/25/2024

**Date Reported:** 8/2/2024

**Date Tested:** 7/29/2024



## Pesticides

Pass

Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070-OA) - **Limit units: ppm** | Test ID: #35717

Analyte	Pass/Fail	Result (ppm)	Limit	LOD (ppm)	LOQ (ppm)
Abamectin B1a	Pass	ND	0.10000	0.00944	0.03114
Abamectin B1b	Pass	ND	0.10000	0.00034	0.00113
Acephate	Pass	ND	0.10000	0.00404	0.01333
Acequinocyl	Pass	ND	0.10000	0.02821	0.09310
Azoxystrobin	Pass	ND	0.10000	0.00298	0.00983
Bifenazate	Pass	ND	0.10000	0.00129	0.00427
Bifenthrin	Pass	ND	3.00000	0.01005	0.03317
Carbaryl	Pass	ND	0.50000	0.00402	0.01325
Chlorpyrifos	Pass	ND	0.04000	0.00403	0.01329
Cypermethrin	Pass	ND	1.00000	0.01010	0.03333
Etoxazole	Pass	ND	0.10000	0.00404	0.01333
Imazalil	Pass	ND	0.04000	0.01073	0.03539
Imidacloprid	Pass	ND	5.00000	0.00401	0.01323
Myclobutanil	Pass	ND	0.10000	0.00308	0.01016
Spinosyn A	Pass	ND	0.10000	0.00312	0.01029
Spinosyn D	Pass	ND	0.10000	0.00083	0.00273
Pyrethrins	Pass	ND	0.50000	0.00022 0.00498 *	0.00072 0.00015 *

\* Pyrethrins action limit represents sum of isomers I & II

*Callie Chapman*

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Lab Director  
8/2/2024

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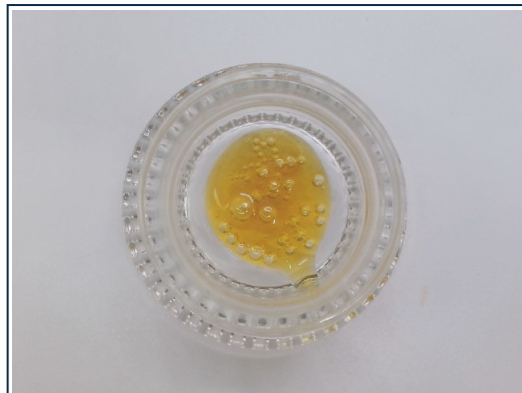
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**Date Received:** 7/25/2024

**Date Reported:** 8/2/2024

**Date Tested:** 7/25/2024



## Residual Solvents

Pass

Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography – Mass Spectrometry (HS-GC-MS; SOP-010-OA) - Limit units: µg/g | Test ID: #35716

Analyte	Pass/Fail	Result (ppm)	Limit	LOD (ppm)	LOQ (ppm)
Acetone	Pass	< LOQ	5000.000	4.730	14.200
Acetonitrile	Pass	< LOQ	410.000	0.480	1.450
Benzene	Pass	< LOQ	2.000	0.020	0.060
Chloroform	Pass	< LOQ	60.000	0.070	0.210
Ethanol	Pass	< LOQ	5000.000	6.010	18.040
Heptanes (total)	Pass	< LOQ	5000.000	5.950	17.840
Hexanes (total)	Pass	< LOQ	0	0.350	1.040
Isopropyl Alcohol	Pass	< LOQ	5000.000	5.910	17.730
Methanol	Pass	< LOQ	3000.000	3.540	10.610
Methylene Chloride	Pass	< LOQ	600.000	6.400	19.190
Toluene	Pass	< LOQ	890.000	1.050	3.160
Xylenes (total)	Pass	< LOQ	2170.000	19.426 14.858 *	58.868 45.024 *

### Additional Solvent Analytes

Propane	Pass	< LOQ	5000.000	5.420	16.260
2-Methylpropane	Pass	< LOQ	5000.000	5.420	16.270
2,2-Dimethylbutane	Pass	< LOQ	5000.000	0.340	1.020
2,3-Dimethylbutane	Pass	< LOQ	5000.000	0.340	1.030
n-Butane	Pass	< LOQ	0	5.390	16.160
2-Methylpentane	Pass	< LOQ	5000.000	0.340	1.030
3-Methylpentane	Pass	< LOQ	5000.000	0.680	2.050
Isopentane	Pass	< LOQ	5000.000	5.890	17.670
n-Pentane	Pass	< LOQ	5000.000	5.900	17.700
Neopentane	Pass	< LOQ	5000.000	11.870	35.620

\* Xylenes action limit represents sum of m,p-Xylene and o-Xylene

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