



**CATLAB, LLC**  
19 Levesque Dr. #3  
Eliot, ME 03903  
207-200-9950  
ME OCP: MTF368

## Certificate of Analysis

<b>Client Name</b>	Highbrow Industries LLC - Manufacturing	<b>License Number</b>	AM544
<b>Address</b>	55 Topsham Fair Mall Rd. Topsham, ME 04086	<b>Phone</b>	(207) 356-9377
<b>Order ID</b>	2118	<b>Sample Type</b>	Semi-solid edibles
<b>Sample ID</b>	07773	<b>Strain</b>	THC Tincture Test S: 16977
<b>METRC Sample ID</b>	1A40D0300001451000016980	<b>Serving Mass (g)/ Package</b>	0.978 / 30
<b>Date Received</b>	07/07/2023	<b>Collected Sample Weight</b>	8 bottles
<b>Date/Time of Collection</b>	07/07/2023 11:30 AM	<b>Collected By</b>	Highbrow
		<b>Date Generated</b>	07/13/2023

### Summary of Results

Filtration and Foreign Materials Screening	
All Results	Pass

Microbiological Screening	
All Results	Pass

Heavy Metals Screening	
All Results	Pass

Pesticides Screening	
All Results	Pass

Homogeneity Profile	
%RSD THC	N/A
%RSD CBD	0.000
Pass/Fail	Pass
Pass/Fail Limit is 15%	

Potency Profile	
Cannabinoid	Result mg/g
CBDV	< RL
THCV	0.0330
CBDA	< RL
CBD	< RL
CBG	0.103
CBN	0.0355
CBGA	< RL
CBC	0.0460
exoTHC	< RL
Δ9-THC	3.77
Δ8THC	< RL
THCA	< RL
Total CBD mg/g	<RL
Total THC mg/g	3.77   Fail
Total CBD (mg/serving)	<RL
Total CBD (mg/package)	<RL
Total THC (mg/serving)	3.69
Total THC (mg/package)	111

Edibles Total THC Uncertainty: +/- 5.0% for 10mg Serving or 100mg Package

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### Homogeneity

**Date Analyzed:** 7/10/23  
**Instrument:** UPLC CAT-0002

**Prep Date:** 7/9/23  
**Method:** SOP-QA-0014

**Analyst:** AC

Analyte	Finding (mg/g)
Total THC Replicate 1	3.77
Total THC Replicate 2	3.65
Total THC Replicate 3	3.69
%RSD THC	1.65

### Potency

**Date Analyzed:** 7/10/23  
**Instrument:** UPLC CAT-0002/CAT-0151

**Prep Date:** 7/9/23  
**Method:** SOP-QA-0016

**Analyst:** AC

Potency	Result %	Result (mg/g)	Result (mg/serving)	Result (mg/package)	RL (mg/g)
CBDV	< RL	< RL	N/A	N/A	0.0244
THCV	0.00330	0.0330	0.0323	0.969	0.0244
CBDA	< RL	< RL	N/A	N/A	0.0244
CBD	< RL	< RL	N/A	N/A	0.0244
CBG	0.0103	0.103	0.101	3.02	0.0244
CBN	0.00355	0.0355	0.0347	1.04	0.0244
CBGA	< RL	< RL	N/A	N/A	0.0244
CBC	0.00460	0.0460	0.0450	1.35	0.0244
exoTHC	< RL	< RL	N/A	N/A	0.0244
Δ9-THC	0.377	3.77	3.69	111	0.0244
Δ8THC	< RL	< RL	N/A	N/A	0.0244
THCA	< RL	< RL	N/A	N/A	0.0244

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### Heavy Metals

**Date Analyzed:** 7/10/23  
**Instrument:** CAT-0093

**Prep Date:** 7/10/23  
**Method:** SOP-QA-0030

**Analyst:** ITG

Metals	Result (ug/kg)	RL (ug/kg)	Action Level (ug/kg)	Pass/Fail
Arsenic	< RL	44.0	1500	Pass
Cadmium	< RL	91.9	500	Pass
Lead	< RL	32.3	500	Pass
Mercury	< RL	5.89	3000	Pass

### Microbial Analysis

**Prep Date Bacteria:** 7/10/23  
**Date Analyzed Bacteria:** 7/11/23  
**Instrument:** CAT-0140, CAT-0152

**Prep Date Ecoli/SLM:** 7/10/23  
**Date Analyzed Ecoli/SLM:** 7/11/23  
**Method:** SOP-QA-0028, SOP-QA-0038

**Prep Date Yeast and Mold:** 7/10/23  
**Date Analyzed Yeast and Mold:** 7/13/23  
**Analyst:** KW

Contaminants	Result (CFU/g)	RL (CFU/g)	Action Level (CFU/g)	Pass/Fail
Total Aerobic	< RL	100	100,000	Pass
Total Yeast/Mold	< RL	100	10,000	Pass
Total Enterobacter	< RL	100	1,000	Pass
Total Coliform	< RL	100	1,000	Pass
Escherichia Coli (E. Coli)	< RL	1	1	Pass
Salmonella spp	< RL	1	1	Pass

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### Filth and Foreign Materials

**Date Analyzed:** 07/12/23  
**Instrument:** Visual Inspection

**Prep Date:** 07/12/23  
**Method:** SOP-QA-0018

**Analyst:** JG

Analyte	Result	Action Level	Pass/Fail
Sand, Soil, Cinders, Dirt, and Mold (%)	0	25	Pass
Embedded Foreign Material (%)	0	25	Pass
Insect Fragment	0	1	Pass
Hair	0	1	Pass
Mammalian Excreta	0	1	Pass

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### Pesticides

**Date Analyzed:** 7/13/23  
**Instrument:** CAT-0162

**Prep Date:** 7/12/23  
**Method:** SOP QA-0040

**Analyst:** LCH

Analyte	Finding (PPB)	LOQ (PPB)	Limit (PPB)	Pass/Fail	Analyte	Finding (PPB)	LOQ (PPB)	Limit (PPB)	Pass/Fail
Abamectin	< RL	403	500	Pass	Dimethoate	< RL	39.9	200	Pass
Acephate	< RL	55.6	400	Pass	Ethoprophos	< RL	33.9	200	Pass
Acequinocyl	< RL	1150	2000	Pass	Etofenprox	< RL	78.1	400	Pass
Acetamiprid	< RL	31.2	200	Pass	Etoazole	< RL	61.2	200	Pass
Aldicarb	< RL	31.2	400	Pass	Fenoxycarb	< RL	89.9	200	Pass
Azoxystrobin	< RL	33.2	200	Pass	Fenpyroximate	< RL	83.1	400	Pass
Bifenazate	< RL	31.2	200	Pass	Fipronil	< RL	112	400	Pass
Bifenthrin	< RL	96.5	200	Pass	Flonicamid	< RL	31.2	1000	Pass
Boscalid	< RL	42.9	400	Pass	Fludioxonil	< RL	62.5	400	Pass
Carbaryl	< RL	37.0	200	Pass	Hexythiazox	< RL	54.3	1000	Pass
Carbofuran	< RL	31.2	200	Pass	Imazalil	< RL	87.3	200	Pass
Chlorantraniliprole	< RL	92.2	200	Pass	Imidacloprid	< RL	39.8	400	Pass
Chlorfenapyr	< RL	919	1000	Pass	Kresoxim-methyl	< RL	53.6	400	Pass
Chlorpyrifos	< RL	74.5	200	Pass	Malathion	< RL	66.0	200	Pass
Clofentezine	< RL	56.7	200	Pass	Metalaxyl	< RL	56.4	200	Pass
Cyfluthrin	< RL	798	1000	Pass	Methiocarb	< RL	31.2	200	Pass
Cypermethrin	< RL	196	1000	Pass	Methomyl	< RL	31.2	400	Pass
Daminozide	< RL	329	1000	Pass	Methyl parathion	< RL	193	200	Pass
DDVP (Dichlorvos)	< RL	31.2	1000	Pass	MGK-264 <sup>2</sup>	< RL	70.2	200	Pass
Diazinon	< RL	55.3	200	Pass	Myclobutanil	< RL	37.3	200	Pass
					Naled	< RL	42.2	500	Pass

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**Method:** SOP QA-0040

**Analyst:** LCH

Analyte	Finding (PPB)	LOQ (PPB)	Limit (PPB)	Pass/Fail
Oxamyl	< RL	31.2	1000	Pass
Paclobutrazol	< RL	52.5	400	Pass
Permethrin <sup>3</sup>	< RL	199	200	Pass
Phosmet	< RL	55.8	200	Pass
Piperonyl butoxide	< RL	59.0	2000	Pass
Prallethrin	< RL	103	200	Pass
Propiconazole	< RL	59.5	400	Pass
Propoxur	< RL	31.2	200	Pass
Pyrethrins <sup>1</sup>	< RL	248	1000	Pass
Pyridaben	< RL	59.8	200	Pass
Spinosad <sup>4</sup>	< RL	62.4	200	Pass
Spiromesifen	< RL	62.5	200	Pass
Spirotetramat	< RL	37.5	200	Pass
Spiroxamine	< RL	37.9	400	Pass
tebuconazole	< RL	69.2	400	Pass
Thiacloprid	< RL	31.2	200	Pass
Thiamethoxam	< RL	62.6	200	Pass
Trifloxystrobin	< RL	59.3	200	Pass

#### Disclaimer:

1. Pyrethrin is measured as cumulative residues of Pyrethrin, Cinerin, and Jasmolin (CAS # 8003-34-7).
2. MGK-264 is measured as cumulative residue of MGK-264 A and MGK-264 B (CAS # 113-48-4).
3. Permethrin is measured as cumulative residue of cis- and trans- permethrin isomers. (CAS # 54774-45-7 and 51877-74-8, respectively).
4. Spinosad is a measured as cumulative residue of Spinosad A and Spinosad D (CAS # 168316-95-8 and 131929-60-7, respectively).
5. Abamectin is measured as cumulative residues of Abamectin B1a and Abamectin B1b (CAS #71751-41-2)

Note: QC samples presented analytes outside criteria in CCV (high bias for prallethrin, pyridaben, abamectin), LCS (acequinocyl, cyfluthrin, cypermethrin, etoxazole, fenpyroximate, prallethrin, pyridaben, MGK264), and spiked matrix sample.

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