



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

Certificate of Analysis

Client Name	Highbrow Industries LLC - Manufacturing	License Number	AM544
Address	55 Topsham Fair Mall Rd. Topsham, ME 04086	Phone	(207) 356-9377
Order ID	1711	Sample Type	Semi-solid edibles
Sample ID	06308	Strain	THC Capsules S: 14075
METRC Sample ID	1A40D0300001451000014258	Serving Mass (g)/ Package	0.6198 / 10
Date Received	03/30/2023	Collected Sample Weight	20 ea
Date/Time of Collection	03/24/2023 09:00 AM	Collected By	High Brow
		Date Generated	04/12/2023

Summary of Results

Filth 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	1.89
%RSD CBD	N/A
Pass/Fail	Pass
Pass/Fail Limit is 15%	

Potency Profile	
Cannabinoid	Result mg/g
CBDV	< RL
THCV	0.153
CBDA	< RL
CBD	0.0505
CBG	0.601
CBN	0.121
CBGA	< RL
CBC	0.301
exoTHC	< RL
Δ 9-THC	14.0
Δ 8THC	< RL
THCA	< RL
Total CBD mg/g	0.0505
Total THC mg/g	14.0 Pass
Total CBD (mg/serving)	0.0313
Total CBD (mg/package)	0.313
Total THC (mg/serving)	8.68
Total THC (mg/package)	86.8

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

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Homogeneity

Date Analyzed: 4/5/23
Instrument: UPLC CAT-0002

Prep Date: 4/4/23
Method: SOP-QA-0014

Analyst: AC

Analyte	Finding (mg/g)
Total THC Replicate 1	14.0
Total THC Replicate 2	14.3
Total THC Replicate 3	13.8
%RSD THC	1.89

Potency

Date Analyzed: 4/5/23
Instrument: UPLC CAT-0002/CAT-0151

Prep Date: 4/4/23
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	0.0153	0.153	0.0947	0.947	0.0244
CBDA	< RL	< RL	N/A	N/A	0.0244
CBD	0.00505	0.0505	0.0313	0.313	0.0244
CBG	0.0601	0.601	0.373	3.73	0.0244
CBN	0.0121	0.121	0.0750	0.750	0.0244
CBGA	< RL	< RL	N/A	N/A	0.0244
CBC	0.0301	0.301	0.187	1.87	0.0244
exoTHC	< RL	< RL	N/A	N/A	0.0244
Δ9-THC	1.40	14.0	8.68	86.8	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: 4/4/23
Instrument: CAT-0093

Prep Date: 4/4/23
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: 4/3/23
Date Analyzed Bacteria: 4/4/23
Instrument: CAT-0140, CAT-0152

Prep Date Ecoli/SLM: 4/3/23
Date Analyzed Ecoli/SLM: 4/4/23
Method: SOP-QA-0028, SOP-QA-0038

Prep Date Yeast and Mold: 3/31/23
Date Analyzed Yeast and Mold: 4/3/23
Analyst: ITG/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: 4/7/23
Instrument: Visual Inspection

Prep Date: 4/7/23
Method: SOP-QA-0018

Analyst: ITG

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: 4/12/23
Instrument: CAT-0162

Prep Date: 4/10/23
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	Etofenprox	< RL	78.1	400	Pass
Acephate	< RL	55.6	400	Pass	Etoxazole	< RL	61.2	200	Pass
Acequinocyl	< RL	1150	2000	Pass	Fenoxycarb	< RL	89.9	200	Pass
Acetamiprid	< RL	31.2	200	Pass	Fenpyroximate	< RL	83.1	400	Pass
Aldicarb	< RL	31.2	400	Pass	Fipronil	< RL	112	400	Pass
Azoxystrobin	< RL	33.2	200	Pass	Flonicamid	< RL	31.2	1000	Pass
Bifenazate	< RL	31.2	200	Pass	Fludioxonil	< RL	62.5	400	Pass
Bifenthrin	< RL	96.5	200	Pass	Hexythiazox	< RL	54.3	1000	Pass
Boscalid	< RL	42.9	400	Pass	Imazalil	< RL	87.3	200	Pass
Carbaryl	< RL	37.0	200	Pass	Imidacloprid	< RL	39.8	400	Pass
Carbofuran	< RL	31.2	200	Pass	Kresoxim-methyl	< RL	53.6	400	Pass
Chlorantraniliprole	< RL	92.2	200	Pass	Malathion	< RL	66.0	200	Pass
Chlorfenapyr	< RL	919	1000	Pass	Metalaxyl	< RL	56.4	200	Pass
Chlorpyrifos	< RL	74.5	200	Pass	Methiocarb	< RL	31.2	200	Pass
Clofentezine	< RL	56.7	200	Pass	Methomyl	< RL	31.2	400	Pass
Cyfluthrin	< RL	798	1000	Pass	Methyl parathion	< RL	193	200	Pass
Cypermethrin	< RL	196	1000	Pass	MGK-264 ²	< RL	70.2	200	Pass
Daminozide	< RL	329	1000	Pass	Myclobutanil	< RL	37.3	200	Pass
DDVP (Dichlorvos)	< RL	31.2	1000	Pass	Naled	< RL	42.2	500	Pass
Diazinon	< RL	55.3	200	Pass	Oxamyl	< RL	31.2	1000	Pass
Dimethoate	< RL	39.9	200	Pass	Paclobutrazol	< RL	52.5	400	Pass
Ethoprophos	< RL	33.9	200	Pass					

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Pesticides

Date Analyzed: 4/12/23
Instrument: CAT-0162

Prep Date: 4/10/23
Method: SOP QA-0040

Analyst: LCH

Analyte	Finding (PPB)	LOQ (PPB)	Limit (PPB)	Pass/Fail
Permethrin ³	< 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 ¹	< RL	248	1000	Pass
Pyridaben	< RL	59.8	200	Pass
Spinosad ⁴	< 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:

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

Note: QC samples presented analytes outside criteria for spiked matrix, CCV (high bias for acephate, aldicarb, ethopropos, methomyl, and propoxur), and LCS (abamectin, acequinocyl, oxamyl, spiromesifen, and spiroxamine).

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Deisy Peña-Romero Lab Director



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Order ID	1711	Sample Type	Semi-solid edibles
Sample ID	06309	Strain	1:1 Capsules S: 14101
METRC Sample ID	1A40D0300001451000014259	Serving Mass (g)/ Package	0.5787 / 10
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Summary of Results

Filth 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	1.70
%RSD CBD	N/A
Pass/Fail	Pass
Pass/Fail Limit is 15%	

Potency Profile	
Cannabinoid	Result mg/g
CBDV	0.103
THCV	0.144
CBDA	< RL
CBD	14.7
CBG	0.540
CBN	0.113
CBGA	< RL
CBC	0.283
exoTHC	< RL
Δ 9-THC	13.4
Δ 8THC	< RL
THCA	< RL
Total CBD mg/g	14.7
Total THC mg/g	13.4 Pass
Total CBD (mg/serving)	8.48
Total CBD (mg/package)	84.8
Total THC (mg/serving)	7.78
Total THC (mg/package)	77.8

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

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Homogeneity

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Prep Date: 4/4/23
Method: SOP-QA-0014

Analyst: AC

Analyte	Finding (mg/g)
Total THC Replicate 1	13.4
Total THC Replicate 2	13.7
Total THC Replicate 3	13.9
%RSD THC	1.70

Potency

Date Analyzed: 4/5/23
Instrument: UPLC CAT-0002/CAT-0151

Prep Date: 4/4/23
Method: SOP-QA-0016

Analyst: AC

Potency	Result %	Result (mg/g)	Result (mg/serving)	Result (mg/package)	RL (mg/g)
CBDV	0.0103	0.103	0.0597	0.597	0.0244
THCV	0.0144	0.144	0.0835	0.835	0.0244
CBDA	< RL	< RL	N/A	N/A	0.0244
CBD	1.47	14.7	8.48	84.8	0.0244
CBG	0.0540	0.540	0.313	3.13	0.0244
CBN	0.0113	0.113	0.0652	0.652	0.0244
CBGA	< RL	< RL	N/A	N/A	0.0244
CBC	0.0283	0.283	0.164	1.64	0.0244
exoTHC	< RL	< RL	N/A	N/A	0.0244
Δ9-THC	1.34	13.4	7.78	77.8	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: 4/4/23
Instrument: CAT-0093

Prep Date: 4/4/23
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: 4/3/23
Date Analyzed Bacteria: 4/4/23
Instrument: CAT-0140, CAT-0152

Prep Date Ecoli/SLM: 4/3/23
Date Analyzed Ecoli/SLM: 4/4/23
Method: SOP-QA-0028, SOP-QA-0038

Prep Date Yeast and Mold: 3/31/23
Date Analyzed Yeast and Mold: 4/3/23
Analyst: ITG/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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CATLAB, LLC
19 Levesque Dr. #3
Eliot, ME 03903
207-200-9950
ME OCP: MTF368

Certificate of Analysis

Client Name	Highbrow Industries LLC - Manufacturing	License Number	AM544
Address	55 Topsham Fair Mall Rd. Topsham, ME 04086	Phone	(207) 356-9377
Order ID	1711	Sample Type	Semi-solid edibles
Sample ID	06309	Strain	1:1 Capsules S: 14101
METRC Sample ID	1A40D0300001451000014259	Serving Mass (g)/ Package	0.5787 / 10
Date Received	03/30/2023	Collected Sample Weight	20 ea
Date/Time of Collection	03/24/2023 09:00 AM	Collected By	High Brow
		Date Generated	04/12/2023

Filth and Foreign Materials

Date Analyzed: 4/7/23
Instrument: Visual Inspection

Prep Date: 4/7/23
Method: SOP-QA-0018

Analyst: ITG

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: 4/12/23
Instrument: CAT-0162

Prep Date: 4/10/23
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	Etofenprox	< RL	78.1	400	Pass
Acephate	< RL	55.6	400	Pass	Etoxazole	< RL	61.2	200	Pass
Acequinocyl	< RL	1150	2000	Pass	Fenoxycarb	< RL	89.9	200	Pass
Acetamiprid	< RL	31.2	200	Pass	Fenpyroximate	< RL	83.1	400	Pass
Aldicarb	< RL	31.2	400	Pass	Fipronil	< RL	112	400	Pass
Azoxystrobin	< RL	33.2	200	Pass	Flonicamid	< RL	31.2	1000	Pass
Bifenazate	< RL	31.2	200	Pass	Fludioxonil	< RL	62.5	400	Pass
Bifenthrin	< RL	96.5	200	Pass	Hexythiazox	< RL	54.3	1000	Pass
Boscalid	< RL	42.9	400	Pass	Imazalil	< RL	87.3	200	Pass
Carbaryl	< RL	37.0	200	Pass	Imidacloprid	< RL	39.8	400	Pass
Carbofuran	< RL	31.2	200	Pass	Kresoxim-methyl	< RL	53.6	400	Pass
Chlorantraniliprole	< RL	92.2	200	Pass	Malathion	< RL	66.0	200	Pass
Chlorfenapyr	< RL	919	1000	Pass	Metalaxyl	< RL	56.4	200	Pass
Chlorpyrifos	< RL	74.5	200	Pass	Methiocarb	< RL	31.2	200	Pass
Clofentezine	< RL	56.7	200	Pass	Methomyl	< RL	31.2	400	Pass
Cyfluthrin	< RL	798	1000	Pass	Methyl parathion	< RL	193	200	Pass
Cypermethrin	< RL	196	1000	Pass	MGK-264 ²	< RL	70.2	200	Pass
Daminozide	< RL	329	1000	Pass	Myclobutanil	< RL	37.3	200	Pass
DDVP (Dichlorvos)	< RL	31.2	1000	Pass	Naled	< RL	42.2	500	Pass
Diazinon	< RL	55.3	200	Pass	Oxamyl	< RL	31.2	1000	Pass
Dimethoate	< RL	39.9	200	Pass	Paclobutrazol	< RL	52.5	400	Pass
Ethoprophos	< RL	33.9	200	Pass					

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Pesticides

Date Analyzed: 4/12/23
Instrument: CAT-0162

Prep Date: 4/10/23
Method: SOP QA-0040

Analyst: LCH

Analyte	Finding (PPB)	LOQ (PPB)	Limit (PPB)	Pass/Fail
Permethrin ³	< 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 ¹	< RL	248	1000	Pass
Pyridaben	< RL	59.8	200	Pass
Spinosad ⁴	< 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:

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

Note: QC samples presented analytes outside criteria for spiked matrix, CCV (high bias for acephate, aldicarb, ethopropos, methomyl, and propoxur), and LCS (abamectin, acequinocyl, oxamyl, spiromesifen, and spiroxamine).

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Deisy Peña-Romero Lab Director