



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	1927	Sample Type	Concentrate CO ₂ / Solvent
Sample ID	07109	Strain	MAC Hash Rosin 15130
METRC Sample ID	1A40D0300001451000015137	Serving Mass (g)/ Package	/
Date Received	05/10/2023	Collected Sample Weight	6g
Date/Time of Collection	05/10/2023 12:00 PM	Collected By	Charles Nau
		Date Generated	05/18/2023

Summary of Results

Filtration and Foreign Materials Screening	
All Results	Pass

Microbiological Screening	
All Results	Pass

Heavy Metals Screening	
All Results	Pass

Residual Solvents Screening	
All Results	Pass

Pesticides Screening	
All Results	Pass

Homogeneity Profile	
%RSD THC	1.60
%RSD CBD	N/A
Pass/Fail	Pass
Pass/Fail Limit is 15%	

Potency Profile	
Cannabinoid	Result mg/g
CBDV	< RL
THCV	0.874
CBDA	1.87
CBD	< RL
CBG	3.50
CBN	< RL
CBGA	38.2
CBC	< RL
exoTHC	< RL
Δ9-THC	51.1
Δ8THC	< RL
THCA	746
Total Cannabinoids %	84.2
Total CBD mg/g	1.64
Total THC mg/g	706
Total CBD %	0.164
Total THC %	70.6

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Homogeneity

Date Analyzed: 05/16/23
Instrument: UPLC CAT-0002

Prep Date: 05/15/23
Method: SOP-QA-0014

Analyst: AC

Analyte	Finding (mg/g)
Total THC Replicate 1	706
Total THC Replicate 2	728
Total THC Replicate 3	712
%RSD THC	1.60

Potency

Date Analyzed: 05/16/23
Instrument: UPLC CAT-0002/CAT-0151

Prep Date: 05/15/23
Method: SOP-QA-0016

Analyst: AC

Potency	Result %	Result (mg/g)	RL (mg/g)
CBDV	< RL	< RL	0.214
THCV	0.0874	0.874	0.214
CBDA	0.187	1.87	0.214
CBD	< RL	< RL	0.214
CBG	0.350	3.50	0.214
CBN	< RL	< RL	0.214
CBGA	3.82	38.2	0.214
CBC	< RL	< RL	0.214
exoTHC	< RL	< RL	0.214
Δ9-THC	5.11	51.1	0.214
Δ8THC	< RL	< RL	0.214
THCA	74.6	746	0.214

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Residual Solvents

Date Analyzed: 5/18/23
Instrument: CAT-0156

Prep Date: 5/17/23
Method: SOP QA-0036

Analyst: LCH

Analyte	Result (PPM)	RL (PPM)	Action Limit (PPM)	Pass/Fail
Acetone	< RL	600	5000	Pass
Acetonitrile	< RL	289	410	Pass
Butanes	< RL	695	5000	Pass
Ethanol	< RL	699	5000	Pass
Ethyl acetate	< RL	660	5000	Pass
Ethyl ether	< RL	597	5000	Pass
Heptanes	< RL	613	5000	Pass
Hexane	< RL	263	290	Pass
Isopropyl alcohol	< RL	723	5000	Pass
Methanol	< RL	697	3000	Pass
Pentane	< RL	665	5000	Pass
Propane	< RL	957	5000	Pass
Toluene	< RL	660	890	Pass
m,p-Xylenes	< RL	337	2170*	Pass
o-Xylenes	< RL	342	2170*	Pass
1,2-Dichloroethane	< RL	1.00	1	Pass
Benzene	< RL	1.00	1	Pass
Chloroform	< RL	1.00	1	Pass
Ethylene oxide	< RL	1.00	1	Pass
Methylene chloride	< RL	1.00	1	Pass
Trichloroethylene	< RL	0.900	1	Pass

Note: QC presented analytes outside criteria in a CCV (high bias for methylene chloride, hexane, and heptane), spiked matrix sample (high bias for heptane), and LCS (butane, ethylene oxide, and hexane).

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Pesticides

Date Analyzed: 5/15/23
Instrument: CAT-0162

Prep Date: 5/14/23
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 ²	< 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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Pesticides

Date Analyzed: 5/15/23
Instrument: CAT-0162

Prep Date: 5/14/23
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 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:

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)

QC samples presented analytes outside criteria in CCV (cyfluthrin, cypermethrin, and acequinocyl), LCS (acequinocyl, etofenprox, prallethrin), & spiked matrix sample.

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Heavy Metals

Date Analyzed: 5/16/23
Instrument: CAT-0093

Prep Date: 5/15/23
Method: SOP-QA-0030

Analyst: ITG

Metals	Result (ug/kg)	RL (ug/kg)	Action Level (ug/kg)	Pass/Fail
Arsenic	< RL	53.5	200	Pass
Cadmium	< RL	26.6	200	Pass
Lead	< RL	27.6	500	Pass
Mercury	< RL	2.42	100	Pass

Microbial Analysis

Prep Date Bacteria: 5/11/23
Date Analyzed Bacteria: 5/12/23
Instrument: CAT-0140, CAT-0152

Prep Date Ecoli/SLM: 5/11/23
Date Analyzed Ecoli/SLM: 5/12/23
Method: SOP-QA-0028, SOP-QA-0038

Prep Date Yeast and Mold: 5/12/23
Date Analyzed Yeast and Mold: 5/15/23
Analyst: KW

Contaminants	Result (CFU/g)	RL (CFU/g)	Action Level (CFU/g)	Pass/Fail
Total Aerobic	< RL	100	10,000	Pass
Total Yeast/Mold	< RL	100	1,000	Pass
Total Enterobacter	< RL	10	100	Pass
Total Coliform	< RL	10	100	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: 05/16/23 **Prep Date:** 05/16/23
Instrument: Visual Inspection **Method:** SOP-QA-0018 **Analyst:** JG/DPR

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

Deisy Peña-Romero Lab Director

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Sample ID	07110	Strain	Orange Diesel Hash Rosin 15143
METRC Sample ID	1A40D0300001451000015138	Serving Mass (g)/ Package	/
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Summary of Results

Filtration and Foreign Materials Screening	
All Results	Pass

Microbiological Screening	
All Results	Pass

Heavy Metals Screening	
All Results	Pass

Residual Solvents Screening	
All Results	Pass

Pesticides Screening	
All Results	Pass

Homogeneity Profile	
%RSD THC	1.02
%RSD CBD	N/A
Pass/Fail	Pass
Pass/Fail Limit is 15%	

Potency Profile	
Cannabinoid	Result mg/g
CBDV	< RL
THCV	1.67
CBDA	2.09
CBD	< RL
CBG	7.18
CBN	0.290
CBGA	16.3
CBC	1.36
exoTHC	< RL
Δ9-THC	62.9
Δ8THC	< RL
THCA	769
Total Cannabinoids %	86.1
Total CBD mg/g	1.83
Total THC mg/g	737
Total CBD %	0.183
Total THC %	73.7

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Homogeneity

Date Analyzed: 05/16/23
Instrument: UPLC CAT-0002

Prep Date: 05/15/23
Method: SOP-QA-0014

Analyst: AC

Analyte	Finding (mg/g)
Total THC Replicate 1	737
Total THC Replicate 2	723
Total THC Replicate 3	733
%RSD THC	1.02

Potency

Date Analyzed: 05/16/23
Instrument: UPLC CAT-0002/CAT-0151

Prep Date: 05/15/23
Method: SOP-QA-0016

Analyst: AC

Potency	Result %	Result (mg/g)	RL (mg/g)
CBDV	< RL	< RL	0.214
THCV	0.167	1.67	0.214
CBDA	0.209	2.09	0.214
CBD	< RL	< RL	0.214
CBG	0.718	7.18	0.214
CBN	0.0290	0.290	0.214
CBGA	1.63	16.3	0.214
CBC	0.136	1.36	0.214
exoTHC	< RL	< RL	0.214
Δ 9-THC	6.29	62.9	0.214
Δ 8THC	< RL	< RL	0.214
THCA	76.9	769	0.214

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Residual Solvents

Date Analyzed: 5/18/23
Instrument: CAT-0156

Prep Date: 5/17/23
Method: SOP QA-0036

Analyst: LCH

Analyte	Result (PPM)	RL (PPM)	Action Limit (PPM)	Pass/Fail
Acetone	< RL	600	5000	Pass
Acetonitrile	< RL	289	410	Pass
Butanes	< RL	695	5000	Pass
Ethanol	< RL	699	5000	Pass
Ethyl acetate	< RL	660	5000	Pass
Ethyl ether	< RL	597	5000	Pass
Heptanes	< RL	613	5000	Pass
Hexane	< RL	263	290	Pass
Isopropyl alcohol	< RL	723	5000	Pass
Methanol	< RL	697	3000	Pass
Pentane	< RL	665	5000	Pass
Propane	< RL	957	5000	Pass
Toluene	< RL	660	890	Pass
m,p-Xylenes	< RL	337	2170*	Pass
o-Xylenes	< RL	342	2170*	Pass
1,2-Dichloroethane	< RL	1.00	1	Pass
Benzene	< RL	1.00	1	Pass
Chloroform	< RL	1.00	1	Pass
Ethylene oxide	< RL	1.00	1	Pass
Methylene chloride	< RL	1.00	1	Pass
Trichloroethylene	< RL	0.900	1	Pass

Note: QC presented analytes outside criteria in a CCV (high bias for methylene chloride, hexane, and heptane), spiked matrix sample (high bias for heptane), and LCS (butane, ethylene oxide, and hexane).

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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	1927	Sample Type	Concentrate CO ₂ / Solvent
Sample ID	07110	Strain	Orange Diesel Hash Rosin 15143
METRC Sample ID	1A40D0300001451000015138	Serving Mass (g)/ Package	/
Date Received	05/10/2023	Collected Sample Weight	6g
Date/Time of Collection	05/10/2023 12:40 PM	Collected By	Charles Nau
		Date Generated	05/18/2023

Pesticides

Date Analyzed: 5/15/23
Instrument: CAT-0162

Prep Date: 5/14/23
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	127	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 ²	< 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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Pesticides

Date Analyzed: 5/15/23
Instrument: CAT-0162

Prep Date: 5/14/23
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 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:

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)

QC samples presented analytes outside criteria in CCV (cyfluthrin, cypermethrin, and acequinocyl), LCS (acequinocyl, etofenprox, prallethrin), & spiked matrix sample.

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		Date Generated	05/18/2023

Heavy Metals

Date Analyzed: 5/16/23
Instrument: CAT-0093

Prep Date: 5/15/23
Method: SOP-QA-0030

Analyst: ITG

Metals	Result (ug/kg)	RL (ug/kg)	Action Level (ug/kg)	Pass/Fail
Arsenic	< RL	53.5	200	Pass
Cadmium	< RL	26.6	200	Pass
Lead	28.2	27.6	500	Pass
Mercury	< RL	2.42	100	Pass

Microbial Analysis

Prep Date Bacteria: 5/11/23
Date Analyzed Bacteria: 5/12/23
Instrument: CAT-0140, CAT-0152

Prep Date Ecoli/SLM: 5/11/23
Date Analyzed Ecoli/SLM: 5/12/23
Method: SOP-QA-0028, SOP-QA-0038

Prep Date Yeast and Mold: 5/12/23
Date Analyzed Yeast and Mold: 5/15/23
Analyst: KW

Contaminants	Result (CFU/g)	RL (CFU/g)	Action Level (CFU/g)	Pass/Fail
Total Aerobic	< RL	100	10,000	Pass
Total Yeast/Mold	< RL	100	1,000	Pass
Total Enterobacter	< RL	10	100	Pass
Total Coliform	< RL	10	100	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: 05/16/23
Instrument: Visual Inspection

Prep Date: 05/16/23
Method: SOP-QA-0018

Analyst: JG/DPR

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

Deisy Peña-Romero Lab Director