

## Minnesota Hemp Panel

### ANALYZED BY:

Anresco Laboratories  
1375 Van Dyke Avenue,  
San Francisco, CA 94124  
DEA# PA0202945

### CUSTOMER:

Lupulin Brewing Company  
570 Humboldt Dr Suite 107  
Big Lake, MN 55309



### SAMPLE INFORMATION

**Sample No.:** 1372627  
**Product Name:** Smazey  
**Matrix:** Edible (Beverage)  
**Lot #:** SMZH22

**Date Collected:** 01/02/2026  
**Date Received:** 01/02/2026  
**Date Reported:** 01/08/2026

### TEST SUMMARY

**Cannabinoid Profile:** ✔ Pass  
**Pesticide Residue Screen:** ✔ Pass  
**Heavy Metal Screen:** ✔ Pass

**Microbiological Screen:** ✔ Pass  
**Residual Solvent Screen:** ✔ Pass  
**Mycotoxins - Minnesota:** ✔ Pass

### Cannabinoid Profile ✔ Pass

01/08/2026

**Method:** MF-CHEM-15  
**Instrument:** Liquid Chromatography Diode Array Detector (LC-DAD)  
**Limit of Detection** 0.0008 mg/g  
**Limit of Quantitation** 0.0025 mg/g

Cannabinoid	mg/g	%	mg/ml	mg/package	Status
Δ8-THC	ND	ND	ND	ND	-
Δ9-THC	0.0205	0.00205	0.0205	9.68	Pass
Δ9-THCA	ND	ND	ND	ND	-
THCV	ND	ND	ND	ND	-
THCVA	ND	ND	ND	ND	-
CBD	ND	ND	ND	ND	-
CBDA	ND	ND	ND	ND	-
CBC	ND	ND	ND	ND	-
CBCA	ND	ND	ND	ND	-
CBDV	ND	ND	ND	ND	-
CBG	ND	ND	ND	ND	-
CBGA	ND	ND	ND	ND	-
CBN	ND	ND	ND	ND	-
Total THC	0.0205	0.00205	0.0205	9.68	-
Total CBD	ND	ND	ND	ND	-
Total Cannabinoids	0.0205	0.00205	0.0205	9.68	-
Sum of Cannabinoids	0.0205	0.00205	0.0205	9.68	-
<b>Package Weight (g)</b>	472.054				
<b>g/ml Conversion Factor</b>	0.9980				

Total THC = Δ8-THC + Δ9-THC + (0.877 \* THCA)  
Total CBD = CBD + (0.877 \* CBDA)  
Total Cannabinoids = Σ (neutral cannabinoids) + [0.877 \* Σ (acidic cannabinoids)]

**Microbiological Screen** ✔ Pass

01/08/2026

Analyte	Findings	Units	Method	Limit	Status
Standard Plate Count	86	cfu/g	FDA BAM	<100,000	Pass
Total Yeast & Mold	0/10	cfu/g	FDA BAM	<1,000	Pass
Bile Tolerant	<1	cfu/g	AOAC 2003.01	<150	Pass
E. coli	Not Detected	/1g	FDA BAM Modified	Absent in 1g	Pass
E. coli STEC	Not Detected	/25g	Neogen MDS STEC	Absent in 1g	Pass
L. monocytogenes	Not Detected	/25g	AOAC 2016.07	Absent in 1g	Pass
Salmonella	Not Detected	/25g	AOAC 2016.01	Absent in 1g	Pass

**Pesticide Residue Screen** ✔ Pass

01/08/2026

**Method:** MF-CHEM-13

**Instrument:** Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)

Analyte	LOD/LOQ (ppm)	Findings (ppm)	Limit (ppm)	Status
Abamectin	0.04/0.10	ND	0.3	Pass
Acephate	0.02/0.06	ND	5.0	Pass
Acequinocyl	0.04/0.10	ND	4.0	Pass
Acetamiprid	0.017/0.05	ND	5.0	Pass
Aldicarb	0.02/0.06	ND	0.02	Pass
Azoxystrobin	0.02/0.06	ND	40.0	Pass
Bifenazate	0.02/0.06	ND	5.0	Pass
Bifenthrin	0.04/0.10	ND	0.5	Pass
Boscalid	0.02/0.06	ND	10.0	Pass
Captan	0.2/0.6	ND	5.0	Pass
Carbaryl	0.02/0.06	ND	0.5	Pass
Carbofuran	0.017/0.05	ND	0.017	Pass
Chlorantraniliprole	0.02/0.06	ND	40.0	Pass
Chlordane	0.02/0.06	ND	0.02	Pass
Chlorfenapyr	0.02/0.06	ND	0.02	Pass
Chlorpyrifos	0.02/0.06	ND	0.02	Pass
Clofentezine	0.02/0.06	ND	0.5	Pass
Coumaphos	0.02/0.06	ND	0.02	Pass
Cyfluthrin	0.10/0.30	ND	1.0	Pass
Cypermethrin	0.10/0.30	ND	1.0	Pass
Daminozide	0.017/0.05	ND	0.017	Pass
DDVP (Dichlorvos)	0.013/0.04	ND	0.013	Pass
Diazinon	0.017/0.05	ND	0.2	Pass
Dimethoate	0.017/0.05	ND	0.017	Pass
Dimethomorph	0.017/0.05	ND	20.0	Pass
Ethoprop(hos)	0.02/0.06	ND	0.02	Pass
Etofenprox	0.02/0.06	ND	0.02	Pass
Etoxazole	0.02/0.06	ND	1.5	Pass
Fenhexamid	0.017/0.05	ND	10.0	Pass
Fenoxycarb	0.02/0.06	ND	0.02	Pass
Fenpyroximate	0.02/0.06	ND	2.0	Pass
Fipronil	0.02/0.06	ND	0.02	Pass
Flonicamid	0.02/0.06	ND	2.0	Pass
Fludioxonil	0.02/0.06	ND	30.0	Pass
Hexythiazox	0.02/0.06	ND	2.0	Pass
Imazalil	0.02/0.06	ND	0.02	Pass
Imidacloprid	0.02/0.06	ND	3.0	Pass
Kresoxim Methyl	0.02/0.06	ND	1.0	Pass
Malathion	0.017/0.05	ND	5.0	Pass
Metalaxyl	0.017/0.05	ND	15.0	Pass
Methiocarb	0.02/0.06	ND	0.02	Pass
Methomyl	0.013/0.04	ND	0.1	Pass
Methyl parathion	0.02/0.06	ND	0.02	Pass
Mevinphos	0.02/0.06	ND	0.02	Pass
Myclobutanil	0.02/0.06	ND	9.0	Pass
Naled	0.017/0.05	ND	0.5	Pass
Oxamyl	0.013/0.04	ND	0.2	Pass
Paclobutrazol	0.02/0.06	ND	0.02	Pass
Pentachloronitrobenzene	0.017/0.05	ND	0.2	Pass
Permethrins	0.10/0.30	ND	20.0	Pass
Phosmet	0.02/0.06	ND	0.2	Pass
Piperonyl Butoxide	0.02/0.06	ND	8.0	Pass
Prallethrin	0.04/0.10	ND	0.4	Pass
Propiconazole	0.02/0.06	ND	20.0	Pass

Analyte	LOD/LOQ (ppm)	Findings (ppm)	Limit (ppm)	Status
Propoxur	0.013/0.04	ND	0.013	Pass
Pyrethrins	0.15/0.50	ND	1.0	Pass
Pyridaben	0.017/0.05	ND	3.0	Pass
Spinetoram	0.02/0.06	ND	3.0	Pass
Spinosad	0.02/0.06	ND	3.0	Pass
Spiromesifen	0.04/0.10	ND	12.0	Pass
Spirotetramat	0.02/0.06	ND	13.0	Pass
Spiroxamine	0.017/0.05	ND	0.017	Pass
Tebuconazole	0.02/0.06	ND	2.0	Pass
Thiadoprid	0.013/0.04	ND	0.013	Pass
Thiamethoxam	0.02/0.06	ND	4.5	Pass
Trifloxystrobin	0.02/0.06	ND	30.0	Pass

## Residual Solvent Screen ✓ Pass

01/08/2026

**Method:** MF-CHEM-32

**Instrument:** Gas Chromatography Mass Spectrometry (GC/MS)

Analyte	LOD/LOQ (ppm)	Findings (ppm)	Limit (ppm)	Status
Benzene	0.2/0.5	ND	2	Pass
n-Butane	67/200	ND	5000	Pass
Ethanol	67/200	<LOQ	5000	Pass
n-Heptane	67/200	ND	5000	Pass
n-Hexane	67/200	ND	290	Pass
n-Pentane	67/200	ND	3000	Pass
Propane	67/200	ND	5000	Pass
Toluene	67/200	ND	890	Pass
Total xylenes (ortho-, meta-, para-)	67/200	ND	2170	Pass

## Heavy Metal Screen ✓ Pass

01/08/2026

**Method:** MF-CHEM-16

**Instrument:** Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

Analyte	LOD/LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
Arsenic	0.033/0.101	ND	1.5	Pass
Cadmium	0.047/0.141	ND	0.5	Pass
Mercury	0.014/0.05	ND	3	Pass
Lead	0.107/0.324	ND	0.5	Pass

## Mycotoxins - Minnesota ✓ Pass

01/08/2026

**Method:** MF-CHEM-13

**Instrument:** Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)

Analyte	LOD/LOQ	Findings	Limit	Status
Aflatoxin B1	2/5	ND	5	Pass
Aflatoxin B2	2/5	ND	-	-
Aflatoxin G1	2/5	ND	-	-
Aflatoxin G2	2/5	ND	-	-
Ochratoxin A	6/18	ND	-	-
Total Mycotoxins	-	ND	20	Pass

ND = None Detected  
LOD = Limit of Detection  
LOQ = Limit of Quantitation

Reported by




Vu Lam  
Lab Co Director



Scan to verify