Gastronaut

Trailhead Cannabis Co

Report Issuance: 08/28/2026

Sample ID: AIT-SAMP-775
Product Matrix: Cannabis or Hemp Flower for Smoking

Brainerd, MN
Level of Analysis:

Collected (Sampled): 08/17/2026
Received By Testing Lab: 08/24/2026 01:13 PM
Sample Preparation: 08/26/2026, 08/25/2026, 08/27/2026

Strain: Gastronaut
Batch No:
Batch Size:

Sampling Method: SOP Client Method
Description: 7/22/26 Harvest Batch
Metrc ID: 1A4140300003C2A000000352







Cannabinoid Potency

Analyte	16.655% Total THC MU	LOQ	Results	Results
	%	mg/g	mg/g	%
CBDa	3.4	1.5	<LOQ	<LOQ
CBGa	6.7	1.5	4.916848	0.4916848
CBG	7.3	1.5	<LOQ	<LOQ
CBD	11.2	1.5	<LOQ	<LOQ
THCV	7.6	1.5	<LOQ	<LOQ
CBN	8.9	1.5	<LOQ	<LOQ
Δ9-THC	14.7	1.5	1.568807	0.1568807
Δ8-THC	12	1.5	<LOQ	<LOQ
CBC	2.5	1.5	<LOQ	<LOQ
THCa	5.6	1.5	188.116277	18.8116277

Test Method: MTH-CP-01
Total Primary Sample Weight: 0.4976

Equations: Total THC=(THCa*0.877)+Delta 9 THC | Total CBD = (CBDa*0.877)+CBD | Purity Equation=unknown cannabinoids' estimated concentration based on peak area comparison to the CBD calibration curve. | Other Artificially Derived Cannabinoids = combined total of 0.5 milligrams of all other cannabinoids per serving other than delta-9 THC, CBD, CBG, CBN, and CBC |Total [Analyte] mg Per Container=Servings Per Container*Total [Analyte] mg/g | Total [Analyte] mg Per Serving=Servings Per Container*Total [Analyte] mg/g | Total Variance=Product Label within 15% of label amount for each compound listed, or <25% if more than 70% THC present.

Location of Analysis: 2224 26th St S Moorhead, MN, 56560

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Brad Towey, PH.D. | Principal Scientist

Mark Adams | COO

MN OCM License No: TF-L25-000011-01-TST
METRC No: TF-L25-000011-01-TST

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Brainerd, MN
Level of Analysis:

Microbial Analysis

Analyte	Limit	Result	Status
A. niger	Not detected in 10 g	Not detected in 10 g	Pass
A. flavus	Not detected in 10 g	Not detected in 10 g	Pass
A. fumigatus	Not detected in 10 g	Not detected in 10 g	Pass
A. terreus	Not detected in 10 g	Not detected in 10 g	Pass
Enterobacteriaceae (CFU/g)	1000	<100	Pass
Salmonella species	Not detected in 10 g	Not detected in 10 g	Pass
Shiga toxin-producing E. coli	Not detected in 10 g	Not detected in 10 g	Pass
Total aerobic microbial (CFU/g)	100000	450	Pass
Total yeast and mold (CFU/g)	100000	37000	Pass
Water Activity (aw)	0.65	0.5398	Pass

Test Method: MTH-MICRO-ASP-01, MTH-MICRO-EN-01, MTH-MICRO-SLM-01, MTH-MICRO-STCSLM-01, MTH-MICRO-AE-01, MTH-MICRO-YM-01, MTH-WA-01
Total Primary Sample Weight: 120.2995, 9.7254, 9.6681

Heavy Metals

Analyte	MU	LOQ	Limit	Result	Status
	%	PPM	PPM	PPM	
Arsenic	20.6	0.05	0.2	<LOQ	Pass
Cadmium	32.2	0.05	0.2	<LOQ	Pass
Mercury	13	0.05	0.1	<LOQ	Pass
Lead	48.8	0.05	0.5	<LOQ	Pass

Test Method: MTH-HM-01
Total Primary Sample Weight: 0.0998
Equations: Concentration (ppb, µg/kg) = S (Concentration of Analyte (ng/g) * DF (Dilution Factor) * (M (Mass of Analytical Solution)/m (Mass (g) of Sample Portion))

Mycotoxins

Analyte	MU	LOQ	Limit	Result	Status
	%	PPB	PPB	PPB	
Aflatoxin B1	16.1	8	5	<LOQ	PASS
Aflatoxin B2	7.1	8	20	<LOQ	PASS
Aflatoxin G1	21.5	8	20	<LOQ	PASS
Aflatoxin G2	26.7	8	20	<LOQ	PASS
Ochratoxin A	41.3	8	20	<LOQ	PASS
Total Mycotoxins	N/A	N/A	20	0	PASS

Test Method: MTH-PM-01; MTH-MY-01
Total Primary Sample Weight: 0.0506

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Brainerd, MN
Level of Analysis:

Pesticides

Analyte	MU	LOQ	Limit	Result	Status	Analyte	MU	LOQ	Limit	Result	Status	Analyte	MU	LOQ	Limit	Result	Status
	%	PPM	PPM	PPM			%	PPM	PPM	PPM			%	PPM	PPM	PPM	
Abamectin	36	0.005	0.5	<LOQ	Pass	Fenoxycarb	8.4	0.005	0.2	<LOQ	Pass	Pyrethrin I	8.3	0.005	1	<LOQ	Pass
Acephate	56.2	0.005	0.4	<LOQ	Pass	Fenpyroximate	14.2	0.005	0.4	<LOQ	Pass	Pyridaben	50.6	0.005	0.2	<LOQ	Pass
Acequinocyl	21	0.005	2	<LOQ	Pass	Fipronil	7.1	0.005	0.4	<LOQ	Pass	Spinosyn A	3.1	0.005	N/A	<LOQ	N/A
Acetamiprid	10.8	0.005	0.2	<LOQ	Pass	Flonicamid	9.9	0.005	1	<LOQ	Pass	Spinosyn D	15.5	0.005	N/A	<LOQ	N/A
Azadirachtin	21.1	0.005	1	<LOQ	Pass	Fludioxonil	7.8	0.005	0.4	<LOQ	Pass	Spinosad	6.4	0.005	0.2	<LOQ	Pass
Azoxystrobin	16.1	0.005	0.2	<LOQ	Pass	Hexythiazox	10.4	0.005	1	<LOQ	Pass	Spiromesifen	10.7	0.005	0.2	<LOQ	Pass
Bifenazate	11.3	0.005	0.2	<LOQ	Pass	Imazalil	9.9	0.005	0.2	<LOQ	Pass	Spirotetramat	7	0.005	0.2	<LOQ	Pass
Bifenthrin	47.2	0.005	0.2	<LOQ	Pass	Imidacloprid	9.3	0.005	0.4	<LOQ	Pass	Tebuconazole	9.4	0.005	0.4	<LOQ	Pass
Boscalid	12.4	0.005	0.4	<LOQ	Pass	Kresoxim Methyl	7.8	0.005	0.4	<LOQ	Pass	Thiamethoxam	8.1	0.005	0.2	<LOQ	Pass
Carbaryl	5.6	0.005	0.2	<LOQ	Pass	Malathion	7.2	0.005	0.2	<LOQ	Pass	Trifloxystrobin	9.8	0.005	0.2	<LOQ	Pass
Chlorantraniliprole	12.6	0.005	0.2	<LOQ	Pass	Metalaxyl	18.1	0.005	0.2	<LOQ	Pass						
Chlorfenapyr	34.9	0.005	1	<LOQ	Pass	Methiocarb	11.7	0.005	0.2	<LOQ	Pass						
Chlormequat Chloride	9.5	0.005	0.2	<LOQ	Pass	Methomyl	8.4	0.005	0.4	<LOQ	Pass						
Chlorpyrifos	6.3	0.005	0.2	<LOQ	Pass	Myclobutanil	8.1	0.005	0.2	<LOQ	Pass						
Clofentezine	6.2	0.005	0.2	<LOQ	Pass	Naled	9.7	0.005	0.5	<LOQ	Pass						
Cyfluthrin	13.3	0.005	1	<LOQ	Pass	Oxamyl	6.9	0.005	1	<LOQ	Pass						
Cypermethrin	7.6	0.005	1	<LOQ	Pass	Paclobutrazol	11.7	0.005	0.4	<LOQ	Pass						
Daminozide	6.6	0.005	1	<LOQ	Pass	Permethrins	15.5	0.005	0.3	<LOQ	Pass						
Diazinon	2.2	0.005	0.2	<LOQ	Pass	Phosmet	8.1	0.005	0.2	<LOQ	Pass						
Dichlorvos	7.2	0.005	0.1	<LOQ	Pass	Piperonyl Butoxide	7.4	0.005	2	<LOQ	Pass						
Dimethoate	5.6	0.005	0.2	<LOQ	Pass	Prallethrin	6.7	0.005	0.2	<LOQ	Pass						
Etofenprox	36.4	0.005	0.4	<LOQ	Pass	Propiconazole	7.8	0.005	0.4	<LOQ	Pass						
Etoxazole	12	0.005	0.2	<LOQ	Pass	Propoxur	13.9	0.005	0.2	<LOQ	Pass						

Test Method: MTH-PM-01; MTH-PE-01
Total Primary Sample Weight: 0.0506

Foreign Material

Analyte	Status
Total Foreign Material	PASS
Total Hard Foreign Material	PASS
Overall Status	PASS
Type of FM Found: hair	

Test Method: MTH-FM-01
Total Primary Sample Weight: 13.8923
Equations: Total Foreign Material %=(Foreign Material Mass/Test Portion Mass)*100%

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