True North Analytical
2656 Patton Road
Roseville, MN 55113

(612) 497-9626
https://truenorthanalytical.com
Lic# TF-L25-000014-02-TST

Item Name: Gastronaut (Whole Buds)

METRC Sample: 1A4140300003C2A000000853; METRC Batch: 1A4140300003C2A000000789; METRC Manifest #: 0000442210

Initial Test

Sample ID: 2610TNA0558.1963
Strain: Gastronaut
Matrix: Plant
Type: Flower - Cured
Sample Size: 45.04 g; Batch:

Produced: 09/24/2026
Collected:
Received: 10/16/2026
Completed: 10/31/2026
Batch#:

Client
Trailhead Cannabis
Lic. # MICRO-L25-000917
17951 MN-371
Brainerd, MN 56401



Summary

Test	Date Tested	Result
Batch		Pass
Cannabinoids		Complete
Moisture	10/28/2026	7.460% - Complete
Water Activity	10/28/2026	0.529 aw - Pass
Terpenes	10/30/2026	Complete
Microbials	10/26/2026	Pass
Mycotoxins	10/28/2026	Pass
Pesticides	10/28/2026	Pass
Heavy Metals	10/28/2026	Pass
Foreign Matter	10/26/2026	Pass

Cannabinoids

Complete

26.2%	ND	31.1%
Total THC	Total CBD	Total Cannabinoids

Analyte	LOQ	Measurement Uncertainty	Result	Result
	%	%	%	mg/g
THCa	0.245	0.988	29.1	291
Δ9-THC	0.245	0.0233	0.684	6.84
Δ8-THC	0.245	0.00	<LOQ	<LOQ
THCVa	0.245	0.00906	0.267	2.67
THCV	0.245	0.00	<LOQ	<LOQ
CBDa	0.245	0.00	<LOQ	<LOQ
CBD	0.245	0.00	<LOQ	<LOQ
CBDVa	0.245	0.00	<LOQ	<LOQ
CBDV	0.245	0.00	<LOQ	<LOQ
CBN	0.245	0.00	<LOQ	<LOQ
CBGa	0.245	0.0230	0.675	6.75
CBG	0.245	0.00	<LOQ	<LOQ
CBCa	0.245	0.0120	0.353	3.53
CBC	0.245	0.00	<LOQ	<LOQ
Total			**31.1**	**311**

Date Prepared: 10/27/2026, Date Tested:
1 Unit = 0.000g
Total THC = %Δ9-THC + (%THCA x 0.877)
Total CBD = %CBD + (%CBDA x 0.877)
Total Cannabinoids=Sum of all compounds.
Refer to Cannabis Technical Authority: Standards for Sampling and Testing Cannabis and Hemp Products Section VII for full cannabinoid names.
Analysis performed as described in SOP-0169, Analyst: ERL
Mass Analyzed (g): 0.2449

7.460% Complete	0.529 aw Pass	Pass
Moisture Content	Water Activity	Foreign Matter
Analyst: LAH *Date Tested/ Prepared:10/28/2026* *Mass Analyzed (g): 0.2619*	*Analyst: LAH* *Date Tested/ Prepared:10/28/2026* *Mass Analyzed (g): 0.2619*	*Analyst: AR* *Date Tested/ Prepared:10/26/2026* *Mass Analyzed (g): 14.26*

Zachary Remillard
Director of Chemistry
10/31/2026

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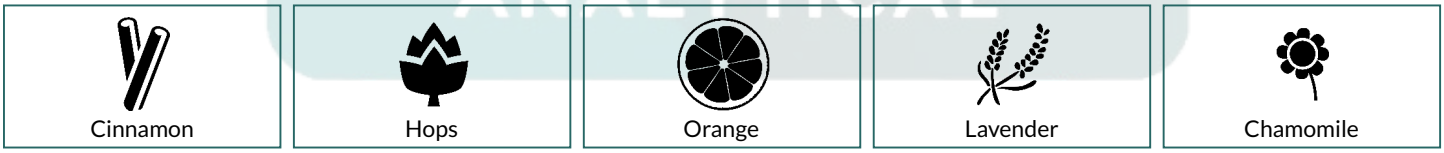
Client
Trailhead Cannabis
Lic. # MICRO-L25-000917
17951 MN-371
Brainerd, MN 56401

Terpenes

Analyte	LOQ	Measurement Uncertainty	Result	Result
	%	%	%	mg/g
β-Caryophyllene	0.0598	0.0347	0.598	5.98
β-Myrcene	0.0598	0.0203	0.350	3.50
δ-Limonene	0.0598	0.0126	0.218	2.18
α-Humulene	0.0598	0.0102	0.175	1.75
Linalool	0.0598	0.00701	0.121	1.21
(-)-α-Bisabolol	0.0598	0.00445	0.0767	0.767
3-Carene	0.0598	0.00	<LOQ	<LOQ
α-Pinene	0.0598	0.00119	<LOQ	<LOQ
α-Terpinene	0.0598	0.00	<LOQ	<LOQ
β-Pinene	0.0598	0.00242	<LOQ	<LOQ
Camphene	0.0598	0.000442	<LOQ	<LOQ
Caryophyllene Oxide	0.0598	0.00	<LOQ	<LOQ
Eucalyptol	0.0598	0.00	<LOQ	<LOQ
γ-Terpinene	0.0598	0.00	<LOQ	<LOQ
Geraniol	0.0598	0.000978	<LOQ	<LOQ
Guaiol	0.0598	0.00	<LOQ	<LOQ
(-)-Isopulegol	0.0598	0.00	<LOQ	<LOQ
Nerolidol	0.0598		<LOQ	<LOQ
Ocimene	0.0598		<LOQ	<LOQ
p-Cymene	0.0598	0.00	<LOQ	<LOQ
Terpinolene	0.0598	0.00	<LOQ	<LOQ
cis-Nerolidol		0.00	<LOQ	<LOQ
Total			**1.539**	**15.387**

Date Prepared: 10/27/2026, Date Tested: 10/30/2026
Analysis performed as described in SOP-0170. All compounds reported as estimates.
Analyst: TA
Mass Analyzed (g): 0.2449

Primary Aromas



Zachary Remillard
Director of Chemistry
10/31/2026

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Pesticides

Pass

Test Type	LOQ	Limit	Measurement Uncertainty	Mass	Status
	PPM	PPM	PPM	PPM	
Abamectin	0.400	0.5	0.00	<LOQ	Pass
Acephate	0.200	0.4	0.00	<LOQ	Pass
Acequinocyl	1.00	2	0.00	<LOQ	Pass
Acetamiprid	0.0800	0.2	0.00	<LOQ	Pass
Azadirachtin	0.400	1	0.00	<LOQ	Pass
Azoxystrobin	0.0800	0.2	0.00	<LOQ	Pass
Bifenazate	0.0800	0.2	0.00	<LOQ	Pass
Bifenthrin	0.0800	0.2	0.00	<LOQ	Pass
Boscalid	0.200	0.4	0.00	<LOQ	Pass
Carbaryl	0.0800	0.2	0.00	<LOQ	Pass
Chlorantraniliprole	0.0800	0.2	0.00	<LOQ	Pass
Chlorfenapyr	0.400	1	0.00	<LOQ	Pass
Chlormequat chloride	0.0800	0.2	0.00	<LOQ	Pass
Chlorpyrifos	0.0800	0.2	0.00	<LOQ	Pass
Clofentezine	0.0800	0.2	0.00	<LOQ	Pass
Cyfluthrin	0.400	1	0.00	<LOQ	Pass
Cypermethrin	0.400	1	0.000117	<LOQ	Pass
Daminozide	0.400	1	0.00	<LOQ	Pass
Diazinon	0.0400	0.2	0.00	<LOQ	Pass
Dichlorvos	0.0800	0.1	0.00	<LOQ	Pass
Dimethoate	0.0800	0.2	0.00	<LOQ	Pass
Etofenprox	0.200	0.4	0.00	<LOQ	Pass
Etoxazole	0.0800	0.2	0.00	<LOQ	Pass
Fenoxycarb	0.0800	0.2	0.00	<LOQ	Pass
Fenpyroximate	0.200	0.4	0.00	<LOQ	Pass
Fipronil	0.200	0.4	0.00	<LOQ	Pass
Flonicamid	0.400	1	0.00	<LOQ	Pass
Fludioxonil	0.200	0.4	0.00	<LOQ	Pass
Hexythiazox	0.400	1	0.00	<LOQ	Pass
Imazalil	0.0800	0.2	0.00	<LOQ	Pass
Imidacloprid	0.200	0.4	0.00	<LOQ	Pass
Kresoxim Methyl	0.200	0.4	0.00	<LOQ	Pass
Malathion	0.0800	0.2	0.00	<LOQ	Pass
Metalaxyl	0.0800	0.2	0.00	<LOQ	Pass
Methiocarb	0.0800	0.2	0.00	<LOQ	Pass
Methomyl	0.200	0.4	0.00	<LOQ	Pass
Myclobutanil	0.0800	0.2	0.00	<LOQ	Pass
Naled	0.400	0.5	0.00	<LOQ	Pass
Oxamyl	0.400	1	0.00	<LOQ	Pass
Paclobutrazol	0.200	0.4	0.00	<LOQ	Pass
Permethrins	0.200	0.3	0.00	<LOQ	Pass
Phosmet	0.0800	0.2	0.00	<LOQ	Pass
Piperonyl Butoxide	1.00	2	0.00	<LOQ	Pass
Prallethrin	0.0800	0.2	0.00	<LOQ	Pass
Propiconazole	0.200	0.4	0.00	<LOQ	Pass
Propoxur	0.0800	0.2	0.00	<LOQ	Pass
Pyrethrins	0.400	1	0.000683	<LOQ	Pass
Pyridaben	0.0800	0.2	0.00	<LOQ	Pass
Spinosad	0.0800	0.2	0.00	<LOQ	Pass
Spiromesifen	0.100	0.2	0.00	<LOQ	Pass
Spirotetramat	0.0800	0.2	0.0000173	<LOQ	Pass
Tebuconazole	0.200	0.4	0.00	<LOQ	Pass
Thiamethoxam	0.0800	0.2	0.00	<LOQ	Pass
Trifloxystrobin	0.0800	0.2	0.00	<LOQ	Pass

Date Prepared: 10/27/2026, Date Tested: 10/28/2026
Analysis performed as described in SOP-0171.
Analyst: AJW
Mass Analyzed (g): 0.5404

Mycotoxins

Pass

Test Type	LOQ	Limit	Measurement Uncertainty	Mass	Status
	PPB	PPB	PPB	PPB	
B1	0.100	5	0.00	<LOQ	Pass
B2	0.200	20	0.0152	0.422	Pass
G1	0.200	20	0.00	<LOQ	Pass
G2	0.200	20	0.00	<LOQ	Pass
Ochratoxin A	0.200	20	0.00	<LOQ	Pass
Total Aflatoxins		20		0.422	Pass
Total Mycotoxins		20		0.422	Pass

Date Prepared: 10/27/2026, Date Tested: 10/28/2026
Analysis performed as described in SOP-0171.
Analyst: AJW
Mass Analyzed (g): 0.5404

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Director of Chemistry
10/31/2026

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Heavy Metals

Pass

Test Type	LOQ	Limit	Measurement Uncertainty	Mass	Status
	PPM	PPM	PPM	PPM	
Arsenic	0.100	0.2	0.00112	<LOQ	Pass
Cadmium	0.100	0.2	0.000130	<LOQ	Pass
Lead	0.100	0.5	0.00113	<LOQ	Pass
Mercury	0.0500	0.1	0.0000747	<LOQ	Pass

Date Prepared: 10/28/2026, Date Tested: 10/28/2026
Analysis performed as described in SOP-0172.
Analyst: AJW
Mass Analyzed (g): 0.626

Microbials

Pass

Test Type	Analysis By	Limit	Measurement Uncertainty	Mass	Status
		CFU/g		CFU/g	
Aerobic Bacteria	Petrifilm	100000	7.60	Not Detected	Pass
Aspergillus SPP	PCR	0		Not Detected	Pass
Enterobacteriaceae	Petrifilm	1000	4.10	Not Detected	Pass
Salmonella	PCR	0		Not Detected	Pass
Shiga Toxin E. Coli	PCR	0		Not Detected	Pass
Yeast & Mold	PCR	100000	7.40	Not Detected	Pass

Date Prepared: 10/16/2026, Date Tested: 10/26/2026
Aspergillus spp. includes Aspergillus niger, Aspergillus flavus, Aspergillus fumigatus, Aspergillus terreus. Procedures followed SOP-0166, SOP-0167, SOP-0168, and SOP-0175. Measurement of Uncertainty is a percentage of the reported value.
Analyst: NICOLE GROTH
Analytical Batch ID: NP-102626-A, SSAF-102726-A, NPL-102726-A, PCR-102626-A, PCR-102726-A
Nonpath Plating Weight (g): 9.56g, Aspergillus, Salmonella, and STEC Weight (g): 9.6g, Nonpath PCR Weight (g): 9.83g,

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