



True North Analytical
2656 Patton Road
Roseville, MN 55113

(612) 497-9626
https://truenorthanalytical.com
Lic#

Regulatory Compliance Testing

1 of 4

Item Name: Gorilla Glue 4 (Whole Buds)

METRC Sample: 1A4140300003C2A000000105; METRC Batch: 1A4140300003C2A000000099; METRC Manifest #: 0000394311

Initial Test

Sample ID: 2607TNA0212.0738

Produced: 06/19/2026

Client

Strain: Gorilla Glue 4

Collected: 07/06/2026

Trailhead Cannabis

Matrix: Plant

Received: 07/09/2026

Lic. # MICRO-L25-000917

Type: Flower - Cured

Completed: 07/23/2026

17951 MN-371

Sample Size: 40.01 g; Batch:

Batch#:

Brainerd, MN 56401



Summary

Test	Date Tested	Result
Batch		Pass
Cannabinoids	07/21/2026	Complete
Moisture	07/17/2026	8.320% - Complete
Water Activity	07/17/2026	0.577 aw - Pass
Terpenes	07/21/2026	Complete
Microbials	07/22/2026	Pass
Mycotoxins	07/20/2026	Pass
Pesticides	07/20/2026	Pass
Heavy Metals	07/21/2026	Pass
Foreign Matter	07/15/2026	Pass

Cannabinoids

Complete

21.2%		ND		24.8%	
Total THC		Total CBD		Total Cannabinoids	
Analyte	LOQ	Measurement Uncertainty	Result	Result	
	%	%	%		mg/g
THCa	0.363	0.768	22.6		226
Δ9-THC	0.363	0.0484	1.42		14.2
Δ8-THC	0.363	0.00	<LOQ		<LOQ
THCVa	0.363	0.00	<LOQ		<LOQ
THCV	0.363	0.00	<LOQ		<LOQ
CBDa	0.363	0.00	<LOQ		<LOQ
CBD	0.363	0.00	<LOQ		<LOQ
CBDVa	0.363	0.00	<LOQ		<LOQ
CBDV	0.363	0.00	<LOQ		<LOQ
CBN	0.363	0.00	<LOQ		<LOQ
CBGa	0.363	0.0263	0.773		7.73
CBG	0.363	0.00	<LOQ		<LOQ
CBCa	0.363	0.00	<LOQ		<LOQ
CBC	0.363	0.00	<LOQ		<LOQ
Total			24.8		248

Date Prepared: 07/21/2026, Date Tested: 07/21/2026

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: ATM

Mass Analyzed (g): 0.2203

8.320%

Complete

Moisture Content

Analyst: LAH

Date Tested/ Prepared: 07/17/2026

Mass Analyzed (g): 0.2832

0.577 aw

Pass

MU: 0.00357678

Water Activity

Analyst: LAH

Date Tested/ Prepared: 07/17/2026

Mass Analyzed (g): 0.2832

Pass

Foreign Matter

Analyst: AR

Date Tested/ Prepared: 07/15/2026

Mass Analyzed (g): 12.91



Zachary D. Remillard

Zachary Remillard
Director of Chemistry
07/23/2026

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This report has been prepared by True North Analytical (TNA) in accordance with the most recent requirements of ISO/IEC 17025:2017, Minnesota Statutes 2024 Chapter 342 and 9810, and Minnesota Office of Cannabis Management (OCM) Cannabis Technical Authority (CTA). The measurements referenced herein were performed in accordance with valid methods and quality management system as required by Minnesota State Law. Measurement uncertainty estimates were agreed upon by all parties during review of requests, tenders, and contract procedure, and are available upon request. The decision rule was not applied to the given pass/fail tolerance limits that are specified by OCM CTA policies. This report shall not be reproduced except in full, without the written consent of TNA. The results relate solely to the item(s) tested as received and are valid only under the conditions in which the testing was performed. No conclusions should be drawn regarding any other items, lots, or conditions not specifically included in this report. This Certificate shall not be reproduced except in full, without the written approval of TNA. TNA did not perform the sampling for the items tested; Customers are fully responsible for adhering to CTA Sampling requirements. Not all potential/existing hazards were tested.



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Initial Test

Sample ID: 2607TNA0212.0738	Produced: 06/19/2026	Client
Strain: Gorilla Glue 4	Collected: 07/06/2026	Trailhead Cannabis
Matrix: Plant	Received: 07/09/2026	Lic. # MICRO-L25-000917
Type: Flower - Cured	Completed: 07/23/2026	17951 MN-371
Sample Size: 40.01 g; Batch:	Batch#:	Brainerd, MN 56401

Terpenes

Analyte	LOQ	Measurement Uncertainty	Result	Result
	%	%	%	mg/g
β -Caryophyllene	0.0222	0.0423	0.730	7.30
α -Humulene	0.0222	0.0144	0.248	2.48
(-)- α -Bisabolol	0.0222	0.00808	0.139	1.39
β -Myrcene	0.0222	0.00706	0.122	1.22
δ -Limonene	0.0222	0.00490	0.0845	0.845
Linalool	0.0222	0.00379	0.0654	0.654
Caryophyllene Oxide	0.0222	0.00185	0.0320	0.320
β -Pinene	0.0222	0.00130	0.0224	0.224
3-Carene	0.0222	0.00	<LOQ	<LOQ
α -Pinene	0.0222	0.000925	<LOQ	<LOQ
α -Terpinene	0.0222	0.00	<LOQ	<LOQ
Camphene	0.0222	0.00	<LOQ	<LOQ
Eucalyptol	0.0222	0.00	<LOQ	<LOQ
γ -Terpinene	0.0222	0.00	<LOQ	<LOQ
Geraniol	0.0222	0.00	<LOQ	<LOQ
Guaiol	0.0222	0.00	<LOQ	<LOQ
Nerolidol	0.0222	0.00	<LOQ	<LOQ
Ocimene	0.0222	0.00	<LOQ	<LOQ
(-)-Isopulegol	0.0222	0.00	<LOQ	<LOQ
p-Cymene	0.0222	0.00	<LOQ	<LOQ
Terpinolene	0.0222	0.00	<LOQ	<LOQ
Total			1.443	14.433

Date Prepared: 07/21/2026, Date Tested: 07/21/2026
Analysis performed as described in SOP-0170.
Analyst: ATM
Mass Analyzed (g): 0.2203

Primary Aromas



Zachary Remillard
Director of Chemistry
07/23/2026

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17951 MN-371

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Brainerd, MN 56401

Pesticides

Pass

Test Type	LOQ	Limit	Measurement Uncertainty	Mass	Status	Test Type	LOQ	Limit	Measurement Uncertainty	Mass	Status
	PPM	PPM	PPM	PPM			PPM	PPM	PPM	PPM	
Abamectin	0.400	0.5	0.000461	<LOQ	Pass	Fludioxonil	0.200	0.4	0.00	<LOQ	Pass
Acephate	0.200	0.4	0.00	<LOQ	Pass	Hexythiazox	0.400	1	0.00	<LOQ	Pass
Acequinocyl	1.00	2	0.00	<LOQ	Pass	Imazalil	0.0800	0.2	0.00	<LOQ	Pass
Acetamiprid	0.0800	0.2	0.00	<LOQ	Pass	Imidacloprid	0.200	0.4	0.00	<LOQ	Pass
Azadirachtin	0.400	1	0.00	<LOQ	Pass	Kresoxim	0.200	0.4	0.00	<LOQ	Pass
Azoxystrobin	0.0800	0.2	0.00	<LOQ	Pass	Methyl	0.200	0.4	0.00	<LOQ	Pass
Bifenazate	0.0800	0.2	0.00	<LOQ	Pass	Malathion	0.0800	0.2	0.000440	<LOQ	Pass
Bifenthrin	0.0800	0.2	0.00	<LOQ	Pass	Metalaxyl	0.0800	0.2	0.00	<LOQ	Pass
Boscalid	0.200	0.4	0.00	<LOQ	Pass	Methiocarb	0.0800	0.2	0.00	<LOQ	Pass
Carbaryl	0.0800	0.2	0.00	<LOQ	Pass	Methomyl	0.200	0.4	0.00	<LOQ	Pass
Chlorantraniliprole	0.0800	0.2	0.00	<LOQ	Pass	Myclobutanil	0.0800	0.2	0.00	<LOQ	Pass
Chlorfenapyr	0.400	1	0.00	<LOQ	Pass	Naled	0.400	0.5	0.00	<LOQ	Pass
Chlormequat chloride	0.0800	0.2	0.00	<LOQ	Pass	Oxamyl	0.400	1	0.00	<LOQ	Pass
Chlorpyrifos	0.0800	0.2	0.00	<LOQ	Pass	Paclobutrazol	0.200	0.4	0.00	<LOQ	Pass
Clofentazine	0.0800	0.2	0.00	<LOQ	Pass	Permethrins	0.200	0.3	0.00	<LOQ	Pass
Cyfluthrin	0.400	1	0.000858	<LOQ	Pass	Phosmet	0.0800	0.2	0.00	<LOQ	Pass
Cypermethrin	0.400	1	0.00	<LOQ	Pass	Piperonyl	1.00	2	0.00	<LOQ	Pass
Daminozide	0.400	1	0.000192	<LOQ	Pass	Butoxide	0.0800	0.2	0.00	<LOQ	Pass
Diazinon	0.0400	0.2	0.00	<LOQ	Pass	Prallethrin	0.200	0.4	0.000465	<LOQ	Pass
Dichlorvos	0.0800	0.1	0.00	<LOQ	Pass	Propiconazole	0.0800	0.2	0.00	<LOQ	Pass
Dimethoate	0.0800	0.2	0.00	<LOQ	Pass	Propoxur	0.400	1	0.0248	0.690	Pass
Etofenprox	0.200	0.4	0.00	<LOQ	Pass	Pyrethrins	0.0800	0.2	0.00	<LOQ	Pass
Etoxazole	0.0800	0.2	0.00	<LOQ	Pass	Pyridaben	0.0800	0.2	0.00	<LOQ	Pass
Fenoxycarb	0.0800	0.2	0.00	<LOQ	Pass	Spinosad	0.100	0.2	0.00	<LOQ	Pass
Fenpyroximate	0.200	0.4	0.00	<LOQ	Pass	Spiromesifen	0.0800	0.2	0.00	<LOQ	Pass
Fipronil	0.200	0.4	0.00	<LOQ	Pass	Spirotetramat	0.200	0.4	0.00	<LOQ	Pass
Fonicamid	0.400	1	0.00	<LOQ	Pass	Tebuconazole	0.0800	0.2	0.00	<LOQ	Pass
						Thiamethoxam	0.0800	0.2	0.00	<LOQ	Pass
						Trifloxystrobin	0.0800	0.2	0.00	<LOQ	Pass

Date Prepared: 07/20/2026, Date Tested: 07/20/2026

Analysis performed as described in SOP-0171.

Analyst: AJW

Mass Analyzed (g): 0.5276

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	0.00	<LOQ	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		<LOQ	Pass
Total Mycotoxins		20		<LOQ	Pass

Date Prepared: 07/20/2026, Date Tested: 07/20/2026

Analysis performed as described in SOP-0171.

Analyst: AJW

Mass Analyzed (g): 0.5276



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Heavy Metals

Pass

Test Type	LOQ	Limit	Measurement Uncertainty	Mass	Status
	PPM	PPM	PPM	PPM	
Arsenic	0.100	0.2	0.00188	<LOQ	Pass
Cadmium	0.100	0.2	0.000190	<LOQ	Pass
Lead	0.100	0.5	0.00173	<LOQ	Pass
Mercury	0.0500	0.1	0.000141	<LOQ	Pass

Date Prepared: 07/20/2026, Date Tested: 07/21/2026
Analysis performed as described in SOP-0172.
Analyst: AJW
Mass Analyzed (g): 0.541

Microbials

Pass

Test Type	Analysis By	Limit	Measurement Uncertainty	Mass	Status
		CFU/g		CFU/g	
Aerobic Bacteria	PCR	100000	7.60	57900	Pass
Aspergillus SPP	PCR	0		Not Detected	Pass
Enterobacteriaceae	Petrifilm	1000	4.10	ND	Pass
Salmonella	PCR	0		Not Detected	Pass
Shiga Toxin E. Coli	PCR	0		Not Detected	Pass
Yeast & Mold	PCR	100000	7.40	ND	Pass

Date Prepared: 07/09/2026, Date Tested: 07/22/2026
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: SSAF-072026-A, NP-072226-A, NPL-072126-A, PCR-072126-B, PCR-072226-A
Nonpathogenic Weight (g): 19.47, Salmonella and STEC Weight (g): 10.1g, Aspergillus Weight (g): 10.1



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