



CERTIFICATE OF ANALYSIS

DATE ISSUED 30 APR 2026

Testing Facility License #: TF-A25-000006-01

CERTIFICATE NUMBER:

2604004006

REVISION#

2.0

SAMPLE DETAILS

PRODUCT TYPE	Cannabis	MANIFEST NUMBER	0000085621	REQUEST NUMBER:	MCBR-2604-004
SAMPLE NAME:	Grasslandz - Orange Malt	DATE COLLECTED:	NA	SAMPLES ACCEPTED INTO TEST ON:	8-Apr-26
MATRIX TYPE:	Distillate/Concentrate	DATE RECEIVED IN METRC	8-Apr-26	DATE ASSIGNED TO LAB:	8-Apr-26

SAMPLE DETAILS

FULL TAG NUMBER:	1A4500300005DD000004501
LAST 4 DIGITS TAG NUMBER:	4501
LOT/BATCH NUMBER:	RGLZOM_0426
AMOUNT RECEIVED:	31.19g
LAB SAMPLE ID:	2604004-006A, 2604004-006B

TESTED FOR:

BUSINESS NAME	North Star Canna
ADDRESS	16720 200th St. E Hastings, MN 55033
LICENSE NUMBER	ML0001

ANALYSIS TYPE: (Check all that applies)

R&D	NO	(YES/NO)
COMPLIANCE	YES	(YES/NO)
REANALYSIS	NO	(YES/NO)
RETEST	NO	(YES/NO)

CANNABINOID ANALYSIS - Summary

TOTAL THC CONTENT (%)	76.986
TOTAL CBD CONTENT (%)	0.277
TOTAL OTHER KNOWN CANNABINOIDS: (%)	3.751
TOTAL UNKNOWN SUBSTANCES: (%)	2.669

Reported Total THC (and other Total cannabinoids) values include the standard 0.877 conversion factor to account for the conversion of acidic cannabinoids (e.g., THCA) to their neutral forms (e.g., THC); no further calculation is required. The following are example calculations and definitions that have been applied;

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

Total THC (Δ9-THC + (0.877*THCa))

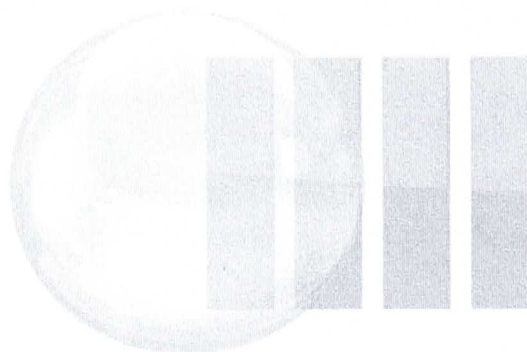
Total CBD (CBD + (0.877*CBDA))

Total Other Known Cannabinoids = [Total CBG (CBG + 0.877*CBGa)] + [Total THCV (THCV + 0.877*THCVa)] + [Total CBC (CBC + 0.877*CBCa)] + [Total CBDV (CBDV + 0.877*CBDVa)].... for the remaining 12 targeted cannabinoids, not including THC, THCA, CBD, CBDA.

Means unidentified, tentatively identified, or unknown cannabinoids or related substances that not among the 14 targeted cannabinoids. Total Unknown Compounds have estimated concentration determined based on peak area comparison to the CBD calibration curve.

SAFETY ANALYSIS - Summary

Potency	TESTED
Heavy Metals	PASS
Microbiology	PASS
Water Activity	NT
Foreign Particulate Matter	NT
Residual Solvents	PASS
Mycotoxins	PASS
Pesticides	PASS
Terpenes	NT
Homogeneity Testing	NT
Stability Testing	NT



For quality assurance purposes. These results relate only to the samples included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: XXX

APPROVAL BY: Henry Larmie, PHD

JOB TITLE: CEO

DATE: 16 JUN 2026

SIGNATURE:

RELEASED BY: Zarrar Khan

JOB TITLE: QAC II

DATE: 16 JUN 2026

SIGNATURE:

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications. FAIL - Results exceed limits/specifications.

All specifications/Limits for Pass/Fail are referenced from Minnesota OCM, Technical Authority: Standards and Sampling, current version.

References: limits of detection (LOD), limits of qualifications (LOQ), not detected (ND), not tested (NT)

µg/g = ppm, µg/kg = ppb, too numerous to count > 250cfu/plate (TNTC), colony forming unit (cfu)

Disclaimer: Not all potential hazards were evaluated.



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REQUEST NO.:	MCBR-2604-004	SAMPLE NAME:	Grasslandz - Orange Malt	LAST 4 DIGITS TAG NO.:	4501
MANIFEST NO.:	0000085621	LAB SAMPLE ID:	2604004-006A, 2604004-006B	LOT/BATCH NO.:	RGLZOM_0426



Cannabinoid Analysis

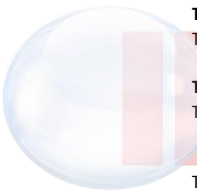
TEST INITIATED ON: 23-Apr-26 TEST COMPLETED ON: 27-Apr-26

Tested by high-performance liquid chromatography with uv detection (HPLC-UV).

TEST METHOD: CLTM-MCB1
REVISION NO. 1.0
TEST SAMPLE AMOUNT 0.1119 g

ORIGINAL TEST ☒
RE-ANALYSIS ☐
REMEDIATION TEST ☐
NOTEBOOK REF. NO. 20178 p 10

KNOWN CANNABINOIDS: Name	CANNABINOID Abbreviation	RRT (wrt THC)	MEASUREMENT UNCERTAINTY (%)	LOD/LOQ	RESULT (%)
Δ9Tetrahydrocannabinol	Δ9THC	1.00	NT	NA	76.986
Tetrahydrocannabinolic acid	THCa	1.16	NT	NA	ND
Cannabidiol	CBD	0.76	NT	0.0085/0.026	0.277
Cannabidiolic acid	CBDa	0.70	NT	0.0085/0.026	ND
Cannabidivarinic acid	CBDVA	0.46	NT	0.0085/0.026	0.106
Cannabidivarin	CBDV	0.49	NT	0.0085/0.026	0.051
Tetrahydro-cannabivarin	THCV	0.74	NT	0.0085/0.026	0.392
Cannabigerol	CBG	0.78	NT	0.0085/0.026	1.904
Cannabigerolic Acid	CBGA	0.81	NT	0.0085/0.026	ND
Tetrahydrocannabivarin acid	THCVa	0.89	NT	0.0085/0.026	0.147
Cannabinol	CBN	0.94	NT	0.0085/0.026	0.700
Δ8Tetrahydrocannabinol	Δ8THC	1.02	NT	0.0085/0.026	ND
Cannabichromene	CBC	1.11	NT	0.0085/0.026	0.450
Cannabichromenic acid	CBCa	1.22	NT	0.0085/0.026	ND



TOTAL THC/THCA 76.99%
Total THC = (Δ9 - THC + (0.877*THCa))
TOTAL CBD/CBDA 0.28%
Total CBD = (CBD + (0.877*CBDa))
TARGET LIMIT: Report Results

TOTAL OTHER KNOWN CANNABINOIDS 3.751 %
Sum of all known (identified) cannabinoids not including THC/THCA, CBD/CBDA
TOTAL UNKNOWN SUBSTANCES: 2.669 %
Sum of unidentified, tentatively Identified, unknown cannabinoids or related substances
CANNABINOID PURITY NT %
The ratio by weight of delta-9-THC to all other artificially derived cannabinoids must be no less than 20 to 1 (at least 95% delta-9-THC)



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REQUEST NO.: MCBR-2604-004

SAMPLE NAME: Grasslandz - Orange Malt

LAST 4 DIGITS TAG NO.: 4501

MANIFEST NO.: 0000085621

LAB SAMPLE ID: 2604004-006A, 2604004-006B

LOT/BATCH NO.: RGLZOM_0426



Pesticide Analysis

Pesticide and plant growth regulator analysis
utilizing high-performance liquid
chromatography-mass spectrometry (LC-MS/MS)

TEST METHOD: CLTM-MCB23

REVISION NO. 2.0

TEST SAMPLE AMOUNT: 0.5 g

NOTEBOOK REF. NO. 20182 p. 69

ORIGINAL TEST ☒RE-ANALYSIS ☐REMEDIATION TEST ☐

Additional Notes:

All analytes tested per variance

a,b includes isomers

* Tested per variance, estimated concentrations

ND - Not detected

RESULTS:

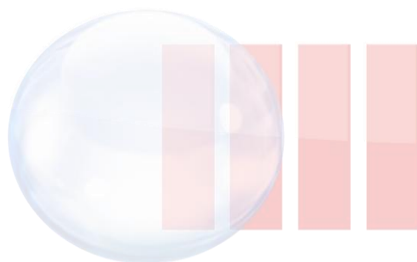
TEST INITIATED ON

14-Apr-26

COMPLETED ON

16-Apr-26

COMPOUND	LOD/LOQ (ppm)	ACTION LIMIT (ppm)	MEASUREMENT UNCERTAINTY (ppm)	RESULT (ppm)	PASS/FAIL
Abamectin	0.05/0.1	0.5	0.005	ND	PASS
Acephate	0.02/0.05	0.4	0.0025	ND	PASS
Acequinocyl	0.02/0.01	2.0	0.0005	ND	PASS
Acetamiprid	0.01/0.01	0.2	0.0005	ND	PASS
Azadirachtin*	0.1/0.25	1.0	0.0125	ND	PASS
Azoxystrobin	0.01/0.02	0.2	0.001	ND	PASS
Bifenazate	0.02/0.05	0.2	0.0025	<LOD	PASS
Bifenthrin	0.01/0.05	0.2	0.0025	ND	PASS
Boscalid	0.02/0.05	0.4	0.0025	ND	PASS
Carbaryl	0.01/0.02	0.2	0.001	ND	PASS
Chlorantraniliprole	0.01/0.02	0.2	0.001	ND	PASS
Chlorfenapyr	0.1/0.25	1.0	0.0125	ND	PASS
Chloromequat Chloride	0.1/0.1	0.2	0.005	ND	PASS
Clorpyrifos (Dursban)	0.02/0.05	0.2	0.0025	ND	PASS
Clofentezine	0.02/0.05	0.2	0.0025	ND	PASS
Cyfluthrin	0.1/0.25	1.0	0.0125	<LOD	PASS
Cypermethrin	0.05/0.1	1.0	0.005	ND	PASS
Daminozide*	0.05/0.1	1.0	0.005	ND	PASS
Diazinon	0.01/0.02	0.1	0.001	<LOD	PASS
Dichlorvos (DDVP)	0.02/0.05	0.2	0.0025	<LOD	PASS
Dimethoate	0.05/0.1	0.2	0.005	ND	PASS
Etofenprox	0.02/0.05	0.4	0.0025	ND	PASS
Etoxazole	0.02/0.05	0.2	0.0025	ND	PASS
Fenoxycarb	0.01/0.02	0.2	0.001	ND	PASS
Fenproximate	0.02/0.05	0.4	0.0025	ND	PASS
Fipronil	0.05/0.1	0.4	0.005	ND	PASS
Flonicamid	0.05/0.1	1.0	0.005	ND	PASS
Fludioxonil	0.1/0.1	0.4	0.005	ND	PASS
Hexythiazox	0.02/0.05	1.0	0.0025	ND	PASS
Imazalil	0.05/0.1	0.2	0.005	<LOD	PASS
Imidacloprid	0.05/0.1	0.4	0.005	ND	PASS
Kresoxim-methyl	0.01/0.02	0.4	0.001	ND	PASS
Malathion	0.01/0.02	0.2	0.001	ND	PASS
Metaxyl	0.02/0.05	0.2	0.0025	ND	PASS
Methiocarb	0.01/0.02	0.2	0.001	ND	PASS
Methomyl	0.01/0.02	0.4	0.001	ND	PASS
Myclobutanil	0.02/0.1	0.2	0.005	ND	PASS
Naled	0.05/0.1	0.5	0.005	ND	PASS
Oxamyl	0.01/0.02	1.0	0.001	ND	PASS
Paclobutrazol	0.01/0.02	0.4	0.001	ND	PASS
Permethrins ^a	0.05/0.1	0.3	0.005	ND	PASS
Phosmet	0.01/0.02	0.2	0.001	ND	PASS
Piperonyl Butoxide	0.02/0.05	2.0	0.0025	ND	PASS
Prallethrin	0.02/0.05	0.2	0.0025	ND	PASS
Propiconazole	0.05/0.1	0.4	0.005	ND	PASS
Propoxur	0.02/0.05	0.2	0.0025	ND	PASS
Pyrethrins ^b	0.02/0.05	1.0	0.0025	<LOD	PASS
Pyridaben	0.02/0.05	0.2	0.0025	ND	PASS
Spinosad*	0.05/0.1	0.2	0.005	ND	PASS
Spiromesifen	0.02/0.05	0.2	0.0025	<LOD	PASS
Spirotetramat	0.02/0.05	0.2	0.0025	ND	PASS
Tebuconazole	0.02/0.05	0.4	0.0025	ND	PASS
Thiamethoxam	0.02/0.05	0.2	0.0025	ND	PASS
Trifloxystrobin	0.02/0.05	0.2	0.0025	ND	PASS





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REQUEST NO.: MCBR-2604-004

SAMPLE NAME: Grasslandz - Orange Malt

LAST 4 DIGITS TAG NO.: 4501

MANIFEST NO.: 0000085621

LAB SAMPLE ID: 2604004-006A, 2604004-006B

LOT/BATCH NO. RGLZOM_0426



MICROBIOLOGY ANALYSIS

RESULTS:

TEST INITIATED ON

14-Apr-26

COMPLETED ON

17-Apr-26

Plate count analysis conducted by dilution and colony forming unit (CFU) enumeration for microbial contaminant isolation.

TEST METHOD CLTM-MCB22

Revision No.

2.0

MICROBIAL TARGET

SAMPLE AMOUNT
(g)

ACTION LIMIT

RESULT

PASS/FAIL

Salmonella	5	Not detected in 5g	Not detected	PASS
Shiga toxin-producing Escherichia coli (O157:H7)	5	Not detected in 5g	Not detected	PASS
Enterobacteriaceae	1	150 CFU/g	Not detected	PASS

☒ ORIGINAL TEST☐ RE-ANALYSIS☐ RE-TEST

TEST METHOD CLTM-MCB39

Revision No.

2.0

TEST METHOD CLTM-MCB38

Revision No.

2.0

MICROBIAL TARGET

SAMPLE AMOUNT
(g)

ACTION LIMIT

RESULT

PASS/FAIL

Aspergillus spp.	5	Not detected in 5g	Not detected	PASS
Listeria monocytogenes	5	Not detected in 5g	Not detected	PASS

☒ ORIGINAL TEST☐ RE-ANALYSIS☐ RE-TEST

TEST METHOD CLTM-MCB37

Revision No.

2.0

TEST METHOD NT

Revision No.

NT

MICROBIAL TARGET

SAMPLE AMOUNT
(g)

ACTION LIMIT

RESULT

PASS/FAIL

Total Aerobic Microbial Count (TAMC)	NA	NA	NA	NT
Total Yeast & Mold Count (TYMC)	NA	NA	NA	NT

☐ ORIGINAL TEST☐ RE-ANALYSIS☐ RE-TEST

NOTEBOOK REF. NO. NB 20170 pg

NOTEBOOK REF. NO. NB 20187 pg 18

Comments:



HEAVY METALS ANALYSIS

RESULTS:

TEST INITIATED ON

14-Apr-26

TEST COMPLETED ON

17-Apr-26

Heavy metals analysis by inductively coupled plasma-mass spectrometry (ICP-MS)

TEST METHOD: CLTM-MCB19

Revision No.

4.0

NOTEBOOK REF. NO. 20185 p. 48

ORIGINAL TEST

☒

RE-ANALYSIS

☐

REMEDATION TEST

☐

COMPOUND

LOD/LOQ
(ppm)ACTION LIMIT
(ppm)MEASUREMENT
UNCERTAINTY (ppm)RESULT
(ppm)

PASS/FAIL

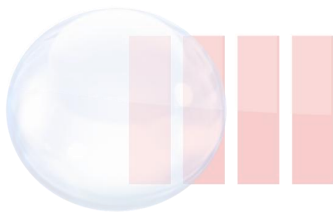
Arsenic	0.05/0.08	0.2	0.04	ND	PASS
Cadmium	0.05/0.08	0.2	0.01	ND	PASS
Lead	0.05/0.08	0.5	0.05	ND	PASS
Mercury	0.03/0.04	0.1	0.02	ND	PASS

TEST SAMPLE AMOUNT :

0.5374

g

Comments:





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REQUEST NO.: MCBR-2604-004

SAMPLE NAME: Grasslandz - Orange Malt

LAST 4 DIGITS TAG NO.: 4501

MANIFEST NO.: 0000085621

LAB SAMPLE ID: 2604004-006A, 2604004-006B

LOT/BATCH NO. RGLZOM_0426



MYCOTOXIN ANALYSIS

RESULTS:

TEST INITIATED ON

14-Apr-26

COMPLETED ON

16-Apr-26

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS)

TEST METHOD: CLTM-MCB23
REVISION NO. 2.0

TEST SAMPLE AMOUNT : 0.5 g

NOTEBOOK REF. NO. 20182 p. 69

ORIGINAL TEST ☒
RE-ANALYSIS ☐
REMEDATION ☐

COMPOUND	LOD/LOQ (ppb)	ACTION LIMIT (ppb)	MEASUREMENT UNCERTAINTY (ppb)	RESULT (ppb)	PASS/FAIL
Aflatoxin B1	4	≤ 5	0.2	ND	PASS
Aflatoxin B2	10	≤ 20	0.5	ND	PASS
Aflatoxin G1	10	≤ 20	0.5	ND	PASS
Aflatoxin G2	10	≤ 20	0.5	ND	PASS
Ochratoxin A	10	≤ 20	0.5	ND	PASS
Total Aflatoxins	10	≤ 20	0.5	ND	PASS

Additional Notes

All analytes tested per variance



RESIDUAL SOLVENTS SCREENING

RESULTS:

TEST INITIATED ON

13-Apr-26

TEST COMPLETED ON

17-Apr-26

Residual Solvent analysis gas chromatography-Flame Ionization Detection (GC-FID)

TEST METHOD: CLTM-MCB06

REVISION NO. 2.0

TEST SAMPLE AMOUNT : 2 g

ORIGINAL TEST ☒
RE-ANALYSIS ☐
REMEDATION ☐

NOTEBOOK REF. NO 20188 p 26-28

RESIDUAL SOLVENT	SCREENING LIMIT (ppm)	INHALATION LIMIT (ppm)	LOD/LOQ (ppm)	RESULT (ppm)	DET/ND/NT
Acetone	600	750	480	ND	ND
Benzene	0.5	1	0.4	ND	ND
Butane	250	800	250	< SL	DET
Chloroform	0.9	1	0.7	< SL	DET
Cyclohexane	243	300	194	< SL	DET
Dichloromethane	88	125	70	ND	ND
Ethanol	30	1000	24	< SL	DET
Ethyl Acetate	300	400	240	ND	ND
Heptane	200	500	160	< SL	DET
Hexane	44	50	35	ND	ND
Isopropanol	400	500	320	< SL	DET
Methanol	200	250	160	< SL	DET
Pentane	10	750	8	ND	ND
Propane	250	2100	250	ND	ND
Toluene	111	150	88	< SL	DET
Trichloroethene	15	25	12	< SL	DET
Total Xylenes	110	150	88	< SL	DET

RESIDUAL SOLVENTS QUANTITATIVE ANALYSIS

TEST METHOD: NA

REVISION NO. NA

TEST SAMPLE AMOUNT : NA

ORIGINAL TEST ☐
RE-ANALYSIS ☐
REMEDATION ☐

RESIDUAL SOLVENT	LOD/LOQ (ppm)	ACTION LIMIT (ppm)	MEASUREMENT UNCERTAINTY (ppm)	RESULT (ppm)	PASS/FAIL
NA	NA	NA	NA	NA	NT
NA	NA	NA	NA	NA	NT
NA	NA	NA	NA	NA	NT
NA	NA	NA	NA	NA	NT
NA	NA	NA	NA	NA	NT

Additional Notes

SL = Screening Limit
ND = Not Detected
All analytes tested per variance

