



CERTIFICATE OF ANALYSIS

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

CERTIFICATE NUMBER:

2606023002

DATE ISSUED

07 AUG 2026

REVISION#

2.0

SAMPLE DETAILS

PRODUCT TYPE	Cannabis	MANIFEST NUMBER	0000099309	REQUEST NUMBER:	MCBR-2606-023
SAMPLE NAME:	Grasslandz - Grape Moscato	DATE COLLECTED:	NA	SAMPLES ACCEPTED INTO TEST ON:	1-Jul-26
MATRIX TYPE:	Distillate/Concentrate	DATE RECEIVED IN METRC	30-Jun-26	DATE ASSIGNED TO LAB:	1-Jul-26

SAMPLE DETAILS

FULL TAG NUMBER:	1A45003000005DD000006399
LAST 4 DIGITS TAG NUMBER:	6399
LOT/BATCH NUMBER:	GLZGM-0726
AMOUNT RECEIVED:	50x1.0g Carts
LAB SAMPLE ID:	2606023-002

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 (%)	77.074	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 (Δ^9-THC + $(0.877 \cdot \text{THCa})$) Total CBD ($\text{CBD} + (0.877 \cdot \text{CBDA})$) Total Other Known Cannabinoids = $[\text{Total CBG} (\text{CBG} + 0.877 \cdot \text{CBGa})] + [\text{Total THCV} (\text{THCV} + 0.877 \cdot \text{THCVa})] + [\text{Total CBC} (\text{CBC} + 0.877 \cdot \text{CBCa})] + [\text{Total CBDV} (\text{CBDV} + 0.877 \cdot \text{CBDVa})]$, ... for the remaining 12 targeted cannabinoids, not including THC, THCA, CBD, CBDA. Means unidentified, tentatively identified, or unknown cannabinoid 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.
TOTAL CBD CONTENT (%)	0.485	
TOTAL OTHER KNOWN CANNABINOIDS: (%)	6.618	
TOTAL UNKNOWN SUBSTANCES: (%)	3.88	

SAFETY ANALYSIS - Summary

Potency	TESTED
Heavy Metals	PASS
Microbiology	PASS
Water Activity	NA
Foreign Particulate Matter	PASS
Residual Solvents	PASS
Mycotoxins	PASS
Pesticides	PASS
Terpenes	NT
Homogeneity Testing	NT
Stability Testing	Initial(T0)

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

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)

$\mu\text{g/g}$ = ppm, $\mu\text{g/kg}$ = ppb, too numerous to count > 250cfu/plate (TNTC), colony forming unit (cfu)

Disclaimer: Not all potential hazards were evaluated.

APPROVAL BY: Henry Larmie, PHD

JOB TITLE: CEO

DATE: 07 AUG 2026

SIGNATURE:

RELEASED BY: Zarrar Khan

JOB TITLE: QAC II

DATE:

SIGNATURE:

Document Change History:

Revised 2.0 certificate released as per client request to correct batch number.



CERTIFICATE OF ANALYSIS

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

CERTIFICATE NUMBER2606023002

DATE ISSUED07 AUG 2026

REVISION#2.0

REQUEST NO.:MCBR-2606-023

SAMPLE NAME:Grasslandz - Grape Moscato

LAST 4 DIGITS TAG NO.:6399

MANIFEST NO.:0000099309

LAB SAMPLE ID:2606023-002

LOT/BATCH NO.:GLZGM-0726



Cannabinoid Analysis

TEST INITIATED ON1-Jul-26TEST COMPLETED ON8-Jul-26

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

TEST METHOD:CLTM-MCB12

REVISION NO.1.0

TEST SAMPLE AMOUNT0.1018g

ORIGINAL TEST☒

RE-ANALYSIS☐

REMIADIATION TEST☐

NOTEBOOK REF. NO.20190 p 54

KNOWN CANNABINOIDS: Name	CANNABINOID Abbreviation	RRT (wrt THC)	MEASUREMENT UNCERTAINTY (%)	LOD/LOQ	*RESULT (%)
Δ9Tetrahydrocannabinol	Δ9THC	1.00	NT	NA	72.718
Tetrahydrocannabinolic acid	THCa	1.16	NT	NA	ND
Cannabidiol	CBD	0.75	NT	0.0085/0.026	0.488
Cannabidiolic acid	CBDa	0.71	NT	0.0085/0.026	ND
Cannabidivarinic acid	CBDVA	0.46	NT	0.0085/0.026	0.194
Cannabidivarin	CBDV	0.50	NT	0.0085/0.026	ND
Tetrahydro-cannabivarin	THCV	0.74	NT	0.0085/0.026	0.623
Cannabigerol	CBG	0.78	NT	0.0085/0.026	1.902
Cannabigerolic Acid	CBGA	0.81	NT	0.0085/0.026	ND
Tetrahydrocannabivarin acid	THCVa	0.90	NT	0.0085/0.026	0.194
Cannabinol	CBN	0.93	NT	0.0085/0.026	1.687
Δ8Tetrahydrocannabinol	Δ8THC	1.02	NT	0.0085/0.026	ND
Cannabichromene	CBC	1.12	NT	0.0085/0.026	1.490
Cannabichromenic acid	CBCa	1.21	NT	0.0085/0.026	0.340

TOTAL THC/THCA72.72%

Total THC =(Δ9 - THC + (0.877*THCa))

TOTAL OTHER KNOWN CANNABINOIDS6.43 %

Sum of all known (identified) cannabinoids not including THC/THCA, CBD/CBDA

TOTAL CBD/CBDA0.49%

Total CBD =(CBD+(0.877*CBDa))

TOTAL UNKNOWN SUBSTANCES:2.559 %

Sum of unidentified, tentatively Identified, unknown cannabinoids or related substances

☐ TARGET LIMIT:

☒ REPORT RESULTS

CANNABINOID PURITYNT %

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)

*Reported results are calculated after decarboxylation.



Foreign Particulate Matter Analysis

Foreign particulate matter analysis conducted via visual inspection.

TEST METHOD NO.:CLTM-MCB08

Rev. NO.:2.0

NOTEBOOK REF. NO.20180, p. 68

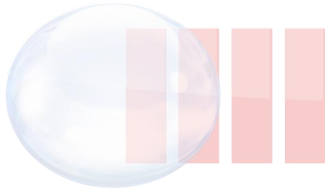
TEST INITIATED ON:8-Jul-26TEST COMPLETED ON:8-Jul-26

TEST	LOD/LOQ (g)	ACTION LIMITS (ORG./INORG.) (% w/w)	MEASUREMENT UNCERTAINTY (%) w/w)	RESULT (ORG./INORG.) (% w/w)	PASS/FAIL
Foreign Matter	NA	NA	NA	ND	PASS

TEST SAMPLE AMOUNT33ea.

☒ ORIGINAL TEST☐ RE-ANALYSIS☐ REMEDIATION-TEST

Additional Notes:





CERTIFICATE OF ANALYSIS

Testing Facility License #: TF-A25-000006-01 CERTIFICATE NUMBER: 2606023002 DATE ISSUED: 07 AUG 2026 REVISION#: 2.0

REQUEST NO.:	MCBR-2606-023	SAMPLE NAME:	Grasslandz - Grape Moscato	LAST 4 DIGITS TAG NO.:	6399
MANIFEST NO.:	0000099309	LAB SAMPLE ID:	2606023-002	LOT/BATCH NO.:	GLZGM-0726



Cannabinoid Analysis

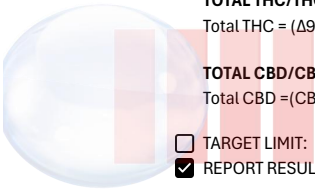
TEST INITIATED ON 15-Jul-26 TEST COMPLETED ON 18-Jul-26

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

TEST METHOD: CLTM-MCB12
REVISION NO. 1.0
TEST SAMPLE AMOUNT 0.1104 g

ORIGINAL TEST ☐
RE-ANALYSIS ☒
REMEDIATION TEST ☐
NOTEBOOK REF. NO. 20190 pp. 57-59

KNOWN CANNABINOIDS: Name	CANNABINOID Abbreviation	RRT (wrt THC)	MEASUREMENT UNCERTAINTY (%)	LOD/LOQ	*RESULT (%)
Δ9Tetrahydrocannabinol	Δ9THC	1.00	NT	NA	77.074
Tetrahydrocannabinolic acid	THCa	ND	NT	NA	ND
Cannabidiol	CBD	0.76	NT	0.039/0.118	0.485
Cannabidiolic acid	CBDa	ND	NT	0.039/0.118	ND
Cannabidivarinic acid	CBDVA	0.46	NT	0.039/0.118	0.254
Cannabidivarin	CBDV	ND	NT	0.039/0.118	ND
Tetrahydro-cannabivarin	THCV	0.73	NT	0.039/0.118	0.591
Cannabigerol	CBG	0.78	NT	0.039/0.118	1.930
Cannabigerolic Acid	CBGA	ND	NT	0.039/0.118	ND
Tetrahydrocannabivarin acid	THCVa	0.89	NT	0.039/0.118	0.269
Cannabinol	CBN	0.93	NT	0.039/0.118	1.752
Δ8Tetrahydrocannabinol	Δ8THC	ND	NT	0.039/0.118	ND
Cannabichromene	CBC	1.11	NT	0.039/0.118	1.525
Cannabichromenic acid	CBCa	1.23	NT	0.039/0.118	0.297



TOTAL THC/THCA 77.074%
Total THC = (Δ9 - THC + (0.877*THCa))
TOTAL CBD/CBDA 0.485%
Total CBD =(CBD+(0.877*CBDA))

☐ TARGET LIMIT:
☒ REPORT RESULTS

TOTAL OTHER KNOWN CANNABINOIDS 6.618 %
Sum of all known (identified) cannabinoids not including THC/THCA, CBD/CBDA
TOTAL UNKNOWN SUBSTANCES: 3.880 %
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)

*Reported results are calculated after decarboxylation.



CERTIFICATE OF ANALYSIS

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

CERTIFICATE NUMBER:

2606023002

DATE ISSUED

07 AUG 2026

REVISION#

2.0

REQUEST NO.: MCBR-2606-023

SAMPLE NAME: Grasslandz - Grape Moscato

LAST 4 DIGITS TAG NO.: 6399

MANIFEST NO.: 0000099309

LAB SAMPLE ID: 2606023-002

LOT/BATCH NO.: GLZGM-0726



Pesticide Analysis

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

TEST METHOD: CLTM-MCB26

REVISION NO. 1.0

TEST SAMPLE AMOUNT: 0.5 g

NOTEBOOK REF. NO. 20182p.77

ORIGINAL TEST ☒RE-ANALYSIS ☐REMEDIATION TEST ☐

Additional Notes:

ND - Not detected

a,b includes isomers

RESULTS:

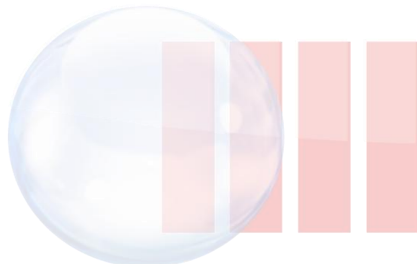
TEST INITIATED ON

8-Jul-26

COMPLETED ON

10-Jul-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	ND	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	ND	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	ND	PASS
Dichlorvos (DDVP)	0.02/0.05	0.2	0.0025	ND	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	ND	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	0.17	PASS
Prallethrin	0.02/0.05	0.2	0.0025	ND	PASS
Propiconazole	0.05/0.1	0.4	0.005	<LOQ	PASS
Propoxur	0.02/0.05	0.2	0.0025	ND	PASS
Pyrethrins ^b	0.02/0.05	1.0	0.0025	ND	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	ND	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





CERTIFICATE OF ANALYSIS

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

CERTIFICATE NUMBER

2606023002

DATE ISSUED

07 AUG 2026

REVISION#

2.0

REQUEST NO.: MCBR-2606-023

SAMPLE NAME: Grasslandz - Grape Moscato

LAST 4 DIGITS TAG NO.: 6399

MANIFEST NO.: 0000099309

LAB SAMPLE ID: 2606023-002

LOT/BATCH NO. GLZGM-0726



MICROBIOLOGY ANALYSIS

RESULTS:

TEST INITIATED ON

6-Jul-26

COMPLETED ON

9-Jul-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	4.6	Not detected in 5g	Not detected	PASS
Shiga toxin-producing Escherichia coli (O157:H7)	4.6	Not detected in 5g	Not detected	PASS
Enterobacteriaceae	4.6	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.	4.6	Not detected in 5g	Not detected	PASS
Listeria monocytogenes	4.6	Not detected in 5g	Not detected	PASS

☒ ORIGINAL TEST☐ RE-ANALYSIS☐ RE-TEST

TEST METHOD

NT

Revision No.

NT

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 86

NOTEBOOK REF. NO. NT

Comments:



HEAVY METALS ANALYSIS

RESULTS:

TEST INITIATED ON

6-Jul-26

TEST COMPLETED ON

8-Jul-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. 76

ORIGINAL TEST

☒

RE-ANALYSIS

☐

REMEDATION TEST

☐

COMPOUND

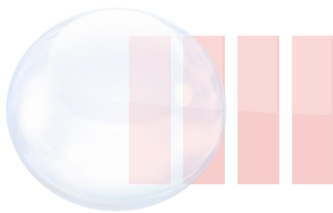
LOD/LOQ
(ppm)ACTION LIMIT
(ppm)MEASUREMENT
UNCERTAINTY (ppm)RESULT
(ppm)

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 : 0.5481 g

Comments:





CERTIFICATE OF ANALYSIS

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

CERTIFICATE NUMBER:

2606023002

DATE ISSUED 07 AUG 2026

REVISION# 2.0

REQUEST NO.: MCBR-2606-023

SAMPLE NAME: Grasslandz - Grape Moscato

LAST 4 DIGITS TAG NO.: 6399

MANIFEST NO.: 0000099309

LAB SAMPLE ID: 2606023-002

LOT/BATCH NO. GLZGM-0726



MYCOTOXIN ANALYSIS

RESULTS:

TEST INITIATED ON

8-Jul-26

COMPLETED ON

10-Jul-26

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

TEST METHOD: CLTM-MCB26
REVISION NO. 1.0

TEST SAMPLE AMOUNT : 0.5 g

NOTEBOOK REF. NO. 20182p.77

ORIGINAL TEST ☒
RE-ANALYSIS ☐
REMEDIATION ☐

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

ND- Not Detected



RESIDUAL SOLVENTS SCREENING

RESULTS:

TEST INITIATED ON

1-Jul-26

TEST COMPLETED ON

8-Jul-26

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

TEST METHOD: CLTM-MCB06

REVISION NO. 2.0

TEST SAMPLE AMOUNT : 1.7952 g

ORIGINAL TEST ☒
RE-ANALYSIS ☐
REMEDIATION ☐

NOTEBOOK REF. NO 20188 p 46-48

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

RESIDUAL SOLVENTS QUANTITATIVE ANALYSIS

TEST METHOD: CLTM-MCB18D

REVISION NO. 0.0

TEST SAMPLE AMOUNT : 0.9270 g

ORIGINAL TEST ☒
RE-ANALYSIS ☐
REMEDIATION ☐

RESIDUAL SOLVENT	LOD/LOQ (ppm)	ACTION LIMIT (ppm)	MEASUREMENT UNCERTAINTY (ppm)	RESULT (ppm)	PASS/FAIL
Ethanol	32/40	1000	NT	50	PASS
Pentane	18/22	750	NT	< MDL	PASS
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

MDL = Method Detection Limit

All analytes tested per variance

*Analytes detected by screening method are evaluated with a quantitative method for actual ppm levels.