

Shot-15-16

Danodan Hempworks
6019 NE MLK JR. BLVD.
PORTLAND, OR 97217
(503) 290-4079

Sample Type: Tinctures
Sample Date: 12/28/2020
Analysis Date: 1/4/2020
Report Date: 1/20/2021

Metric Batch ID:

Metric Sample ID:

Harvest/Process Date: 12/2/2020
Report ID: LS-210106-9
Sample Plan ID:
Sample Procedure: 160721_LAB-
SOP_SampleCollection-v008

Potency

Potency Analysis Date: 1/14/2021
Potency Batch ID: CAN_011421D
Potency Method: JAOAC 2015.1

17.3 mg/mL Total CBD
1.59%




0.675 mg/mL Total THC
620%


Samples: THJ-MPJ-JDG, BGD-DDR-CNB



Analyte	Description	LOQ	RPD (%)	Min.	Max.	Avg.	Unit: mg/mL
Δ9THC	Delta-9 Tetrahydrocannabinol	0.087	2.74	0.666	0.685	0.675	
THCA	Tetrahydrocannabinolic acid	0.087	0.00	ND	ND	ND	
CBD	Cannabidiol	0.087	0.983	17.1	17.3	17.2	
CBDA	Cannabidiolic acid	0.087	1.92	0.169	0.172	0.171	
Δ8THC	Delta-8 Tetrahydrocannabinol*	0.087	0.00	ND	ND	ND	
THCV	Tetrahydrocannabivarin*	0.087	0.00	ND	ND	ND	
CBG	Cannabigerol*	0.087	2.84	0.416	0.428	0.422	
CBGA	Cannabigerolic acid*	0.087	0.00	ND	ND	ND	
CBC	Cannabichromene*	0.087	0.545	0.598	0.602	0.600	
CBCA	Cannabichromenic acid*	0.087	0.00	ND	ND	ND	
CBN	Cannabinol	0.087	0.00	<LOQ	<LOQ	<LOQ	
Total THC	Δ9THC + (THCA × 0.877)		2.74	0.666	0.685	0.675	
Total CBD	CBD + (CBDA × 0.877)		0.958	17.2	17.4	17.3	
Total			0.692	18.9	19.2	19.0	

Compliance

Pesticides	Within limits	Analysis Date: 1/4/2020	Pass 
Solvents	Within limits	Analysis Date: 1/4/2021	Pass 
Potency	Within limits	Analysis Date: 1/14/2021	Pass 


Bryce Kidd, Ph.D.
Lab Director


Aaron Troyer
Chief Science Officer



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Pesticides Sample Data

Pesticides Analysis Date: 1/4/2020
Pesticides Batch ID: PST_010421B

Method: EN 15662
Unit: µg/g (ppm)

Pass 

Analyte	THJ-MPJ-JDG	BGD-DDR-CNB	Limits	LOQ	Notes	Status	Analyte	THJ-MPJ-JDG	BGD-DDR-CNB	Limits	LOQ	Notes	Status
Abamectin	ND	ND	0.5	0.1		Pass	Metalaxyl	ND	ND	0.2	0.1		Pass
Acephate	ND	ND	0.4	0.1		Pass	Methiocarb	ND	ND	0.2	0.1		Pass
Acequinocyl	ND	ND	2.0	1.5		Pass	Methomyl	ND	ND	0.4	0.1		Pass
Acetamiprid	ND	ND	0.2	0.1		Pass	Methyl Parathion	ND	ND	0.2	0.2		Pass
Aldicarb	ND	ND	0.4	0.1		Pass	MGK-264	ND	ND	0.2	0.2		Pass
Azoxystrobin	ND	ND	0.2	0.1		Pass	Myclobutanil	ND	ND	0.2	0.1		Pass
Bifenazate	ND	ND	0.2	0.1		Pass	Naled	ND	ND	0.5	0.2		Pass
Bifenthrin	ND	ND	0.2	0.1		Pass	Oxamyl	ND	ND	1.0	0.1		Pass
Boscalid	ND	ND	0.4	0.1		Pass	Paclobutrazol	ND	ND	0.4	0.1		Pass
Carbaryl	ND	ND	0.2	0.1		Pass	Permethrins	ND	ND	0.2	0.1		Pass
Carbofuran	ND	ND	0.2	0.1		Pass	Phosmet	ND	ND	0.2	0.1		Pass
Chlorantraniliprole	ND	ND	0.2	0.1		Pass	Piperonyl Butoxide	ND	ND	2.0	1.0		Pass
Chlorfenapyr	ND	ND	1.0	0.1		Pass	Prallethrin	ND	ND	0.2	0.1		Pass
Chlorpyrifos	ND	ND	0.2	0.1		Pass	Propiconazole	ND	ND	0.4	0.1		Pass
Clofentezine	ND	ND	0.2	0.1		Pass	Propoxur	ND	ND	0.2	0.1		Pass
Cyfluthrin	ND	ND	1.0	0.5		Pass	Pyrethrins	ND	ND	1.0	0.5		Pass
Cypermethrin	ND	ND	1.0	0.1		Pass	Pyridaben	ND	ND	0.2	0.1		Pass
Daminozide	ND	ND	1.0	0.5		Pass	Spinosad	ND	ND	0.2	0.1		Pass
Diazinon	ND	ND	0.2	0.1		Pass	Spiromesifen	ND	ND	0.2	0.1		Pass
Dichlorvos (DDVP)	ND	ND	1.0	0.5		Pass	Spirotetramat	ND	ND	0.2	0.1		Pass
Dimethoate	ND	ND	0.2	0.1		Pass	Spiroxamine	ND	ND	0.4	0.1		Pass
Ethoprophos	ND	ND	0.2	0.1		Pass	Tebuconazole	ND	ND	0.4	0.1		Pass
Etofenprox	ND	ND	0.4	0.1		Pass	Thiacloprid	ND	ND	0.2	0.1		Pass
Etoxazole	ND	ND	0.2	0.1		Pass	Thiamethoxam	ND	ND	0.2	0.1		Pass
Fenoxycarb	ND	ND	0.2	0.1		Pass	Trifloxystrobin	ND	ND	0.2	0.1		Pass
Fenpyroximate	ND	ND	0.4	0.1		Pass							
Fipronil	ND	ND	0.4	0.1		Pass							
Flonicamid	ND	ND	1.0	0.1		Pass							
Fludioxonil	ND	ND	0.4	0.1		Pass							
Hexythiazox	ND	ND	1.0	0.1		Pass							
Imazalil	ND	ND	0.2	0.1		Pass							
Imidacloprid	ND	ND	0.4	0.1		Pass							
Kresoxim-methyl	ND	ND	0.4	0.1		Pass							
Malathion	ND	ND	0.2	0.1		Pass							

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Sample Date: 12/28/2020
Analysis Date: 1/4/2020
Report Date: 1/20/2021

Metrc Batch ID:

Metrc Sample ID:

Harvest/Process Date: 12/2/2020
Report ID: LS-210106-9
Sample Plan ID:
Sample Procedure: 160721_LAB-SOP_SampleCollection-v008

Pesticides Quality Control Data

Pesticides QC Analysis Date: 1/4/2020
Pesticides QC Batch ID: PST_010421B

Method: EN 15662
Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes	Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Abamectin	ND	0.1	0.905	1.00	90.5	50 - 150		Metalaxyl	ND	0.1	0.928	1.00	92.8	50 - 150	
Acephate	ND	0.1	ND	1.00	0.00	50 - 150		Methiocarb	ND	0.1	0.987	1.00	98.7	50 - 150	
Acequinocyl	ND	1.5	1.09	1.00	109	50 - 150		Methomyl	ND	0.1	0.769	1.00	76.9	50 - 150	
Acetamiprid	ND	0.1	0.744	1.00	74.4	50 - 150		Methyl Parathion	ND	0.2	ND	1.00	0.00	30 - 150	
Aldicarb	ND	0.1	0.732	1.00	73.2	50 - 150		MGK-264	ND	0.2	0.489	0.600	81.5	50 - 150	
Azoxystrobin	ND	0.1	0.845	1.00	84.5	50 - 150		Myclobutanil	ND	0.1	0.920	1.00	92.0	50 - 150	
Bifenazate	ND	0.1	ND	1.00	0.00	50 - 150		Naled	ND	0.2	0.609	1.00	60.9	50 - 150	
Bifenthrin	ND	0.1	0.954	1.00	95.4	50 - 150		Oxamyl	ND	0.1	0.770	1.00	77.0	50 - 150	
Boscalid	ND	0.1	0.975	1.00	97.5	50 - 150		Paclobutrazol	ND	0.1	0.751	1.00	75.1	50 - 150	
Carbaryl	ND	0.1	0.722	1.00	72.2	50 - 150		Permethrins	ND	0.1	0.923	1.00	92.3	50 - 150	
Carbofuran	ND	0.1	0.641	1.00	64.1	50 - 150		Phosmet	ND	0.1	0.951	1.00	95.1	50 - 150	
Chlorantraniliprole	ND	0.1	0.971	1.00	97.1	50 - 150		Piperonyl Butoxide	ND	1.0	0.844	1.00	84.4	50 - 150	
Chlorfenapyr	ND	0.1	0.844	1.00	84.4	50 - 150		Prallethrin	ND	0.1	0.887	1.00	88.7	50 - 150	
Chlorpyrifos	ND	0.1	0.896	1.00	89.6	50 - 150		Propiconazole	ND	0.1	0.997	1.00	99.7	50 - 150	
Clofentezine	ND	0.1	0.724	1.00	72.4	50 - 150		Propoxur	ND	0.1	0.650	1.00	65.0	50 - 150	
Cyfluthrin	ND	0.5	1.03	1.00	103	50 - 150		Pyrethrins	ND	0.5	0.553	1.00	55.3	50 - 150	
Cypermethrin	ND	0.1	0.936	1.00	93.6	50 - 150		Pyridaben	ND	0.1	0.939	1.00	93.9	50 - 150	
Daminozide	ND	0.5	0.958	1.00	95.8	10 - 150		Spinosad	ND	0.1	0.822	1.00	82.2	50 - 150	
Diazinon	ND	0.1	0.809	1.00	80.9	50 - 150		Spiromesifen	ND	0.1	0.973	1.00	97.3	50 - 150	
Dichlorvos (DDVP)	ND	0.5	0.626	1.00	62.6	50 - 150		Spirotetramat	ND	0.1	0.861	1.00	86.1	50 - 150	
Dimethoate	ND	0.1	0.730	1.00	73.0	50 - 150		Spiroxamine	ND	0.1	1.06	1.00	106	50 - 150	
Ethoprophos	ND	0.1	0.738	1.00	73.8	50 - 150		Tebuconazole	ND	0.1	0.964	1.00	96.4	50 - 150	
Etofenprox	ND	0.1	0.986	1.00	98.6	50 - 150		Thiacloprid	ND	0.1	0.759	1.00	75.9	50 - 150	
Etoxazole	ND	0.1	0.878	1.00	87.8	50 - 150		Thiamethoxam	ND	0.1	0.846	1.00	84.6	50 - 150	
Fenoxycarb	ND	0.1	0.869	1.00	86.9	50 - 150		Trifloxystrobin	ND	0.1	0.921	1.00	92.1	50 - 150	
Fenpyroximate	ND	0.1	0.875	1.00	87.5	50 - 150									
Fipronil	ND	0.1	0.914	1.00	91.4	50 - 150									
Flonicamid	ND	0.1	0.778	1.00	77.8	50 - 150									
Fludioxonil	ND	0.1	0.646	1.00	64.6	50 - 150									
Hexythiazox	ND	0.1	0.781	1.00	78.1	50 - 150									
Imazalil	ND	0.1	0.922	1.00	92.2	50 - 150									
Imidacloprid	ND	0.1	0.738	1.00	73.8	50 - 150									
Kresoxim-methyl	ND	0.1	0.875	1.00	87.5	50 - 150									
Malathion	ND	0.1	0.897	1.00	89.7	50 - 150									

Shot-15-16

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Analysis Date: 1/4/2020
Report Date: 1/20/2021

Metric Batch ID:

Metric Sample ID:

Harvest/Process Date: 12/2/2020
Report ID: LS-210106-9
Sample Plan ID:
Sample Procedure: 160721_LAB-SOP_SampleCollection-v008



Residual Solvents Sample Data

Solvents Analysis Date: 1/4/2021
Solvents Batch ID: RES_010421A

Method: EPA 5021A
Unit: µg/g (ppm)

Pass 

Analyte	THJ-MPJ-JDG	BGD-DDR-CNB	RPD (%)	Limits	LOQ	Notes	Status
1,4-Dioxane	ND	ND	0.00	380.0	50.0		Pass
2-Butanol	ND	ND	0.00	5000.0	250.0		Pass
2-Ethoxyethanol	ND	ND	0.00	160.0	50.0		Pass
Acetone	ND	ND	0.00	5000.0	250.0		Pass
Acetonitrile	ND	ND	0.00	410.0	50.0		Pass
Benzene	ND	ND	0.00	2.0	2.0		Pass
Butanes	ND	ND	0.00	5000.0	250.0		Pass
Cumene	ND	ND	0.00	70.0	50.0		Pass
Cyclohexane	ND	ND	0.00	3880.0	50.0		Pass
Ethyl Acetate	<LOQ	<LOQ	0.00	5000.0	250.0		Pass
Ethyl Ether	ND	ND	0.00	5000.0	250.0		Pass
Ethylene Glycol	ND	ND	0.00	620.0	250.0		Pass
Ethylene Oxide	ND	ND	0.00	50.0	50.0		Pass
Heptane	ND	ND	0.00	5000.0	250.0		Pass
Hexanes	ND	ND	0.00	290.0	50.0		Pass
Isopropanol (2-Propanol)	ND	ND	0.00	5000.0	50.0		Pass
Isopropyl Acetate	ND	ND	0.00	5000.0	250.0		Pass
Methanol	<LOQ	<LOQ	0.00	3000.0	250.0		Pass
Dichloromethane	ND	ND	0.00	600.0	50.0		Pass
Pentanes	ND	ND	0.00	5000.0	250.0		Pass
Propane	ND	ND	0.00	5000.0	250.0		Pass
Tetrahydrofuran	ND	ND	0.00	720.0	50.0		Pass
Toluene	ND	ND	0.00	890.0	50.0		Pass
Xylenes	ND	ND	0.00	2170.0	50.0		Pass

Shot-15-16

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Report Date: 1/20/2021

Metric Batch ID:

Metric Sample ID:

Harvest/Process Date: 12/2/2020
Report ID: LS-210106-9
Sample Plan ID:
Sample Procedure: 160721_LAB-SOP_SampleCollection-v008



Residual Solvents Quality Control Data

Solvents QC Analysis Date: 1/4/2021
Solvents QC Batch ID: RES_010421A

Method: EPA 5021A
Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
1,4-Dioxane	ND	50.0	899	1000	89.9	70 - 130	
2-Butanol	ND	250.0	912	1000	91.2	70 - 130	
2-Ethoxyethanol	ND	50.0	986	1000	98.6	70 - 130	
Acetone	ND	250.0	912	1000	91.2	70 - 130	
Acetonitrile	ND	50.0	966	1000	96.6	70 - 130	
Benzene	ND	2.0	20.6	20.0	103	70 - 130	
Butanes	ND	250.0	1940	2000	96.8	70 - 130	
Cumene	ND	50.0	862	1000	86.2	70 - 130	
Cyclohexane	ND	50.0	832	1000	83.2	70 - 130	
Ethyl Acetate	ND	250.0	866	1000	86.6	70 - 130	
Ethyl Ether	ND	250.0	863	1000	86.3	70 - 130	
Ethylene Glycol	ND	250.0	701	1000	70.1	70 - 130	
Ethylene Oxide	ND	50.0	845	1000	84.5	70 - 130	
Heptane	ND	250.0	822	1000	82.2	70 - 130	
Hexanes	ND	50.0	3420	5000	68.4	70 - 130	
Isopropanol (2-Propanol)	ND	50.0	921	1000	92.1	70 - 130	
Isopropyl Acetate	ND	250.0	936	1000	93.6	70 - 130	
Methanol	ND	250.0	876	1000	87.6	70 - 130	
Dichloromethane	ND	50.0	817	1000	81.7	70 - 130	
Pentanes	ND	250.0	2750	3000	91.5	70 - 130	
Propane	ND	250.0	855	1000	85.5	70 - 130	
Tetrahydrofuran	ND	50.0	900	1000	90.0	70 - 130	
Toluene	ND	50.0	867	1000	86.7	70 - 130	
Xylenes	ND	50.0	3440	4000	86.1	70 - 130	

Shot-15-16

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Sample Date: 12/28/2020
Analysis Date: 1/4/2020
Report Date: 1/20/2021

Metric Batch ID:

Metric Sample ID:

Harvest/Process Date: 12/2/2020
Report ID: LS-210106-9
Sample Plan ID:
Sample Procedure: 160721_LAB-
SOP_SampleCollection-v008

Qualifier Flag Descriptions

J	Reported result is an estimate - the value is less than the minimum calibration level but greater than the estimated detection limit (EDL)
U	The analyte was not detected in the sample at the estimated detection limit (EDL)
E	Exceeds calibration range
D	Dilution data - result was obtained from the analysis of a dilution
B	Analyte found in sample and associated blank
C	Co-eluting compound
R	Relative Percent Difference (RPD) outside control limits
NR	Analyte not reported because of problems in sample preparation or analysis
ND	Non-Detect
X	Results from reinjection/repeat/re-column data
EMC	Estimated maximum possible concentration - indicates that a peak is detected but did not meet the method required criteria
M	Manual integration
PS	Peaks split
HB	Control acceptance criteria are exceeded high and the associated sample is below the detection limit
LB	Control acceptance criteria are exceeded low and the associated sample exceeds the regulatory limit
ME	Marginal Exceedance
LR	Low Recovery Analyte
LOQ	Limit of Quantitation

HOW TO READ OUR CERTIFICATE OF ANALYSIS (COA)

Using Lightscale Labs, we perform all tests required under state law for recreational cannabis, medical cannabis, and industrial hemp. Chromatography is used for all required tests, a technique where liquid or gas separates different cannabinoids, pesticides, and residual solvents so that each can be identified and measured precisely.

PAGE I CANNABINOID POTENCY



TEST & HARVEST DATES

Here you can see the dates related to this particular batch of product, including when it was processed, sampled, analyzed, and when the report was finished.



CBD & THC CONTENT

Total CBD and THC content in mg/ml and percentage.



MAJOR & MINOR CANNABINOIDS

Δ9-THC, THCA, CBD, CBDA, and CBN in accordance with OAR 333-007-0430, plus minor cannabinoids.



CHECKLIST RESULTS

PASS or FAIL results for Pesticides, Solvents, and Potency within this COA.



**LIGHTSCALE
LABS**

2535 N Ross Ave
Portland, OR 97227
(503) 493-2535

info@lightscale.com
ORLAP #4112
OLCC #010-1003340D344

Shot-15-12

Danodan Hempworks

(503) 290-4079

Sample Type: Tinctures
Sample Date: 12/2/2019
Analysis Date: 12/3/2019
Report Date: 12/9/2019

Metro Batch ID:
Metro Sample ID:

Harvest/Process Date: 11/25/2019

Report ID:

LS-191204-28

Potency

Potency Analysis Date: 12/3/2019
Potency Batch ID: CAN_120319C
Potency Method: JAOAC 2015.1

16.5 mg/mL Total CBD
1.51%

0.972 mg/mL Total THC
0.0892%

Samples: ZJH-PDF-PFD, TTT-GNB-SHT
Density = 1.09 g/mL



Analyte	Description	LOQ	RPD (%)	Min.	Max.	Avg.	Unit: mg/mL
Δ9THC	Delta-9 Tetrahydrocannabinol	0.28	5.05	0.947	0.996	0.972	
THCA	Tetrahydrocannabinolic acid	0.28	0.00	ND	ND	ND	
CBD	Cannabidiol	0.28	0.534	16.1	16.2	16.1	
CBDA	Cannabidiolic acid	0.28	4.24	0.352	0.367	0.360	
Δ8THC	Delta-8 Tetrahydrocannabinol*	0.28	0.00	ND	ND	ND	
THCV	Tetrahydrocannabivarin*	0.28	0.00	ND	ND	ND	
CBG	Cannabigerol*	0.28	0.493	0.441	0.444	0.443	
CBGA	Cannabigerolic acid*	0.28	0.00	ND	ND	ND	
CBC	Cannabichromene*	0.28	4.72	0.586	0.615	0.601	
CBCA	Cannabichromenic acid*	0.28	0.00	ND	ND	ND	
CBN	Cannabinol	0.28	0.00	<LOQ	<LOQ	<LOQ	
Total THC	Δ9THC + (THCA × 0.877)		5.05	0.947	0.996	0.972	
Total CBD	CBD + (CBDA × 0.877)		0.605	16.4	16.5	16.5	
Total			0.977	18.4	18.6	18.5	

Compliance

Pesticides	Within limits	Analysis Date: 12/3/2019	Pass
Solvents	Within limits	Analysis Date: 12/3/2019	Pass
Potency	Within limits	Analysis Date: 12/3/2019	Pass

Bryce Kidd
Bryce Kidd, Ph.D.
Lab Director

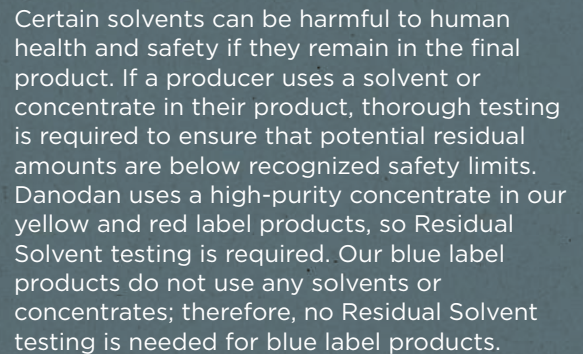
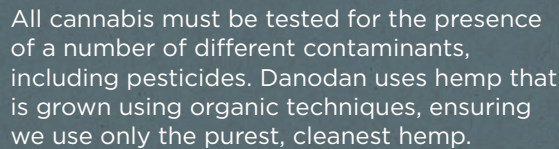
Aaron Troyer
Aaron Troyer
Chief Science Officer



Lightscale Labs is accredited by ORLAP (Lab #4112) for analysis in compliance with OAR 333-064 and OAR 333-087. Results pertain to submitted samples only. Unless otherwise noted, samples were received in good condition and Quality Control samples met acceptance criteria. This Certificate shall not be reproduced except in full, without the written approval of Lightscale Labs. Results marked with an asterisk (*) are not within scope of accreditation and for informational purposes only.



PAGE 4-5 RESIDUAL SOLVENT DATA



LIGHTS
LABS

2030 N Rouse Ave
Durham, NH 03827
(603) 493-2039

info@lightslabs.com
ORSLAP #4102
OLC-USP-000-10003-R000044

Shot-15-12

Dandelion Hempseeds

Sample Type: Tinctures
Sample Date: 12/22/2019
Analysis Date: 12/22/2019
Report Date: 12/30/2019

Metric Batch ID:

Matrix Sample ID:

Method: EPA 8200.A
Shkls.us/g/jttopm

Pass

Residual Solvents
Sample Data

Analyte	ZHH-PFD-FWD	TET-GMS-SHT	RPD (%)	Limits	LOQ	Name	Status
1,4-Dioxane	ND	ND	0.00	280.0	50.0	Pass	
2-Butoxal	ND	ND	0.00	5000.0	250.0	Pass	
2-Ethoxyethanol	ND	ND	0.00	160.0	50.0	Pass	
Acetone	ND	ND	0.00	5000.0	250.0	Pass	
Acetonitrile	ND	ND	0.00	410.0	50.0	Pass	
Benzene	ND	ND	0.00	2.0	2.0	Pass	
Bisphenol A	ND	ND	0.00	5000.0	250.0	Pass	
Cumene	ND	ND	0.00	70.0	50.0	Pass	
Cyclohexane	ND	ND	0.00	3800.0	250.0	Pass	
Ethyl Acetate	ND	ND	0.00	5000.0	250.0	Pass	
Ethyl Ether	ND	ND	0.00	5000.0	250.0	Pass	
Ethylene Glycol	ND	ND	0.00	620.0	250.0	Pass	
Ethylene Oxide	ND	ND	0.00	50.0	50.0	Pass	
Heptane	ND	ND	0.00	5000.0	250.0	Pass	
Hexanes	ND	ND	0.00	250.0	50.0	Pass	
Isoamylated (2-Propanol)	ND	ND	0.00	5000.0	50.0	Pass	
Isopropyl Acetate	ND	ND	0.00	5000.0	250.0	Pass	
Methanol	<LOQ	<LOQ	0.00	2000.0	250.0	Pass	
Dimethylmethane	ND	ND	0.00	600.0	50.0	Pass	
Pentanes	ND	ND	0.00	5000.0	250.0	Pass	
Propane	ND	ND	0.00	5000.0	250.0	Pass	
Tetrahydrofuran	ND	ND	0.00	720.0	50.0	Pass	
Toluene	ND	ND	0.00	800.0	50.0	Pass	
Xylenes	ND	ND	0.00	2170.0	50.0	Pass	

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