

Oregon Genetics Cannabis

Corvallis, OR 97333
caleb@oregongeneticscannabis.com
(503) 891-4479
Lic. #030-1005028B660

Sample: 1801CH0229.1149

Strain: Forum GSC
Batch#: 012518; Batch Size: 4431.6 - grams
Sample Received: 01/25/2018; Report Created: 02/09/2018; Expires: 02/09/2019
Harvest/Production Date: 01/25/2018
Sampling: Random; Environment: Room Temp

Forum GSC (Duplicate)

Concentrates & Extracts, Hash - Oil, Butane
Harvest Process Lot: 012518; METRC Batch: 1A401030007DCA000003659; METRC Sample: 1A401030007DCA000004583



Analyte	Level
THCa	High
Δ9-THC	Low
THCV	Low
CBDa	Low
CBD	Low
CBDV	Low
CBN	Low
CBGa	Low
CBG	Low
CBC	Low

Cannabinoids

030 HPLC4 20180130-1
01/30/2018

64.39%

Total THC* (Calculated
Decarboxylated Potential)

0.11%

Total CBD** (Calculated
Decarboxylated Potential)

82.94%

Total Cannabinoids Analyzed

1 Serving = . g
servings/container,

Pass

Analyte	LOQ	Mass	Mass
	mg/g	%	mg/g
THCa	1.0	70.48	704.8
Δ9-THC	1.0	2.58	25.8
THCV	1.0	<LOQ	<LOQ
CBDa	1.0	0.12	1.2
CBD	1.0	<LOQ	<LOQ
CBDV	1.0	<LOQ	<LOQ
CBN	1.0	<LOQ	<LOQ
CBGa	1.0	9.54	95.4
CBG	1.0	0.22	2.2
CBC	1.0	<LOQ	<LOQ
Total		82.94	829.4

*Total THC = THCa * 0.877 + d9-THC. **Total CBD = CBDa * 0.877 + CBD.
LOQ = Limit of Quantification; NR = Not Reported; ND = Not Detected

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Residual Solvents

028 GCMS2 20180130-2
01/30/2018

Pass

Analyte	LOQ PPM	Limit PPM	Mass PPM	Status
1,4-Dioxane	10		<LOQ	Tested
2-Butanol	50		<LOQ	Tested
2-Ethoxy-Ethanol	10		<LOQ	Tested
2-Propanol IPA	10		11	Tested
Acetone	10		90	Tested
Acetonitrile	40		<LOQ	Tested
Benzene	1		<LOQ	Tested
Butanes	10		27	Tested
Cumene	10		<LOQ	Tested
Cyclohexane	10		<LOQ	Tested
Dichloromethane	10		<LOQ	Tested
Ethyl-Acetate	10		<LOQ	Tested
Ethyl-Ether	10		<LOQ	Tested
Ethylene Glycol	500		<LOQ	Tested
Ethylene Oxide	10		<LOQ	Tested
Heptane	10		<LOQ	Tested
Hexanes	10		<LOQ	Tested
Isopropyl-Acetate	50		<LOQ	Tested
Methanol	40		<LOQ	Tested
Pentanes			<LOQ	Tested
Propane			<LOQ	Tested
Tetrahydrofuran			<LOQ	Tested
Toluene			<LOQ	Tested
Xylenes			<LOQ	Tested

LOQ = Limit of Quantification; PPM = Parts Per Million; NR = Not Reported; ND = Not Detected. Method: EPA 8260C, Agilent 6890A GCMS with 7679A Headspace Autosampler; ORELAP ID 4057

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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
030 HPLC4 20180130-1	PMB01251801CN-RX	Cannabinoids	Blank

QC Notes

None

Compounds	Blank Max % (LOQ)	Blank Result %	Notes
THCa	0.1	<LOQ	-
Δ9-THC	0.1	<LOQ	-
CBDa	0.1	<LOQ	-
CBD	0.1	<LOQ	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
030 HPLC4 20180130-1	PLCS01251801CN-RX	Cannabinoids	Lab Control Sample

QC Notes

None

Compounds	LCS Result (%)	LCS Spike	LCS % Rec	% Limits	Notes
THCa	16.98	15.16	112.01	70 - 130	-
Δ9-THC	10.26	12.7	80.79	70 - 130	-
CBDa	11.2	14.81	75.62	70 - 130	-
CBD	9.46	11.06	85.53	57 - 143	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
030 HPLC4 20180130-1	PMS01251801CN-RX	Cannabinoids	Spike

QC Notes

None

Compounds	LOQ	Matrix Duplicate % RPD	Duplicate RPD Notes	Matrix Spike % Rec	% Limits	Notes
THCa	0.1	0.73	<20	110	70 - 130	-
Δ9-THC	0.1	1.1	<20	87	70 - 130	-
CBDa	0.1	2.09	<20	88	70 - 130	-
CBD	0.1	1.98	<20	87	70 - 130	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
028 GCMS2 20180130-2	RSMB01251801-RX	Required Solvents	Blank

QC Notes

None

Compounds	Method LOQ (PPM)	Blank Result PPM	Notes
Xylenes	30	<LOQ	-
1,4-Dioxane	10	<LOQ	-
2-Butanol	50	<LOQ	-
2-Ethoxy-Ethanol	10	<LOQ	-
2-Methyl-Butane	10	<LOQ	-
2-Methyl-Pentane	10	<LOQ	-
2,2-Dimethyl-Butane	10	<LOQ	-
2,3-Dimethyl-Butane	10	<LOQ	-
3-Methyl-Pentane	10	<LOQ	-
Acetone	10	<LOQ	-
Acetonitrile	40	<LOQ	-
Benzene	0.5	<LOQ	-
Butane	10	<LOQ	-
Cumene	10	<LOQ	-
Cyclohexane	10	<LOQ	-
Dichloro-Methane	10	<LOQ	-
Ethyl-Acetate	10	<LOQ	-
Ethyl-Benzene	10	<LOQ	-
Ethyl-Ether	10	<LOQ	-
Ethylene Glycol	500	<LOQ	-
Ethylene Oxide	10	<LOQ	-
Heptane	10	<LOQ	-
Isobutane	50	<LOQ	-
Isopropyl-Acetate	50	<LOQ	-
Isopropyl Alcohol	10	<LOQ	-
Methanol	40	<LOQ	-
Neopentane	10	<LOQ	-
n-Hexane	10	<LOQ	-
Pentane	10	<LOQ	-
Propane	50	<LOQ	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
028 GCMS2 20180130-2	RSMB01251801-RX	Required Solvents	Blank

QC Notes

None

Compounds	Method LOQ (PPM)	Blank Result PPM	Notes
Tetrahydrofuran	10	<LOQ	-
Toluene	10	<LOQ	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
028 GCMS2 20180130-2	RSLCS01251801-RX	Required Solvents	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	% Limits	Notes
Xylenes	85.47	69 - 131	-
1,4-Dioxane	91.6	67 - 133	-
2-Butanol	113.4	70 - 130	-
2-Ethoxy-Ethanol	91.2	70 - 130	-
2-Methyl-Butane	97.4	52 - 148	-
2-Methyl-Pentane	110.8	54 - 146	-
2,2-Dimethyl-Butane	101.4	54 - 146	-
2,3-Dimethyl-Butane	110.8	53 - 147	-
3-Methyl-Pentane	107	55 - 145	-
Acetone	105	56 - 144	-
Acetonitrile	105.6	60 - 140	-
Benzene	99.4	70 - 130	-
Butane	93.6	42 - 150	-
Cumene	85	68 - 132	-
Cyclohexane	108.4	56 - 144	-
Dichloro-Methane	102.8	58 - 142	-
Ethyl-Acetate	107.2	61 - 139	-
Ethyl-Benzene	91.4	61 - 139	-
Ethyl-Ether	108.2	55 - 145	-
Ethylene Glycol	50.8	33 - 150	-
Ethylene Oxide	104	65 - 135	-
Heptane	106.4	51 - 149	-
Isobutane	84.4	37 - 150	-
Isopropyl-Acetate	105.6	61 - 139	-
Isopropyl Alcohol	105.6	70 - 130	-
Methanol	104	56 - 144	-
Neopentane	95.8	42 - 150	-
n-Hexane	103	53 - 147	-
Pentane	99	51 - 149	-
Propane	75.2	30 - 150	-



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028 GCMS2 20180130-2	RSLCS01251801-RX	Required Solvents	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	% Limits	Notes
Tetrahydrofuran	98.8	60 - 140	-
Toluene	97	62 - 138	-



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028 GCMS2 20180130-2	RSMS01251801-RX	Required Solvents	Spike

QC Notes

None

Compounds	LOQ	Matrix Duplicate % RPD	Duplicate RPD Notes	Matrix Spike % Rec	% Limits	Notes
Xylenes	30	<LOQ	<LOQ	93	30 - 142	-
1,4-Dioxane	10	<LOQ	<LOQ	99	53 - 147	-
2-Butanol	50	<LOQ	<LOQ	121	70 - 130	-
2-Ethoxy-Ethanol	10	<LOQ	<LOQ	92	53 - 147	-
2-Methyl-Butane	10	<LOQ	<LOQ	111	34 - 150	-
2-Methyl-Pentane	10	<LOQ	<LOQ	126	45 - 150	-
2,2-Dimethyl-Butane	10	<LOQ	<LOQ	114	44 - 150	-
2,3-Dimethyl-Butane	10	<LOQ	<LOQ	126	45 - 150	-
3-Methyl-Pentane	10	<LOQ	<LOQ	121	45 - 150	-
Acetone	10	7.79	<30	122	30 - 150	-
Acetonitrile	40	<LOQ	<LOQ	116	50 - 150	-
Benzene	0.5	<LOQ	<LOQ	115	56 - 144	-
Butane	10	16.78	<30	137	30 - 150	-
Cumene	10	<LOQ	<LOQ	75	30 - 150	-
Cyclohexane	10	<LOQ	<LOQ	120	47 - 150	-
Dichloro-Methane	10	<LOQ	<LOQ	120	49 - 150	-
Ethyl-Acetate	10	<LOQ	<LOQ	126	30 - 150	-
Ethyl-Benzene	10	<LOQ	<LOQ	98	48 - 150	-
Ethyl-Ether	10	<LOQ	<LOQ	121	45 - 150	-
Ethylene Glycol	500	<LOQ	<LOQ	69	30 - 150	-
Ethylene Oxide	10	<LOQ	<LOQ	120	53 - 147	-
Heptane	10	<LOQ	<LOQ	119	44 - 150	-
Isobutane	50	<LOQ	<LOQ	102	30 - 150	-
Isopropyl-Acetate	50	<LOQ	<LOQ	127	49 - 150	-
Isopropyl Alcohol	10	7.75	<30	136	70 - 130	Above Limit Range
Methanol	40	<LOQ	<LOQ	120	30 - 150	-
Neopentane	10	<LOQ	<LOQ	115	31 - 150	-
n-Hexane	10	0	<30	116	43 - 150	-
Pentane	10	<LOQ	<LOQ	113	40 - 150	-
Propane	50	<LOQ	<LOQ	92	30 - 150	-



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028 GCMS2 20180130-2	RSMS01251801-RX	Required Solvents	Spike

QC Notes

None

Compounds	LOQ	Matrix Duplicate % RPD	Duplicate RPD Notes	Matrix Spike % Rec	% Limits	Notes
Tetrahydrofuran	10	<LOQ	<LOQ	105	49 - 150	-
Toluene	10	<LOQ	<LOQ	109	49 - 150	-

