

# 387 - Sour Diesel RCO 2.21.20

**Farmer's Friend Extracts**  
 6451 NE Colwood Wy  
 Portland, OR 97218  
 503-442-8653

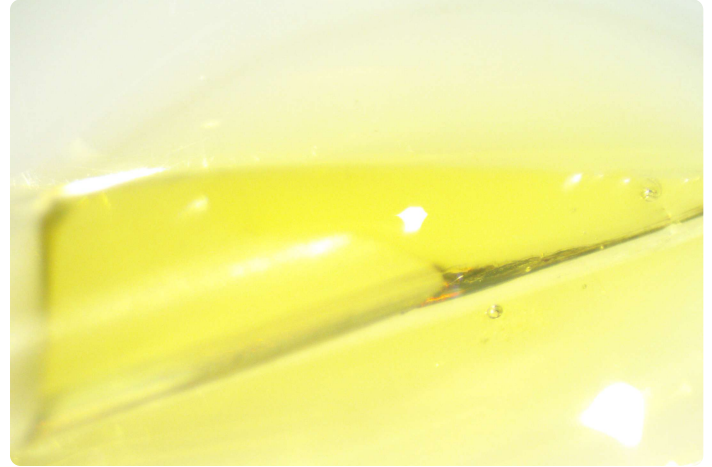
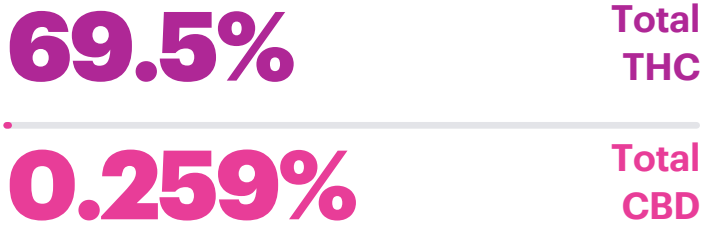
**Sample Type:** Extracts  
**Sample Date:** 2/24/2020  
**Analysis Date:** 2/25/2020  
**Report Date:** 3/2/2020

**Metric Batch ID:**  
 1A4010300016315000022607  
**Metric Sample ID:**  
 1A4010300016315000022707

**Harvest/Process Date:** 2/21/2020  
**Report ID:** LS-200302-15  
**Sample Plan ID:** SP-200224-7-B  
**Sample Procedure:** 160721\_LAB-SOP\_SampleCollection-v007

## Potency

Potency Analysis Date: 2/27/2020  
 Potency Batch ID: CAN\_022720C  
 Potency Method: JAOAC 2015.1



Samples: GZB-MNR-RRW, TCN-FSC-PGD

Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	Unit: %
<b>Δ9THC</b>	Delta-9 Tetrahydrocannabinol	0.16	0.233	69.4	69.5	69.4	
<b>THCA</b>	Tetrahydrocannabinolic acid	0.16	24.0	ND	0.204	0.102	
<b>CBD</b>	Cannabidiol	0.16	20.4	ND	0.196	0.0982	
<b>CBDA</b>	Cannabidiolic acid	0.16	13.8	<LOQ	0.184	0.184	
<b>Δ8THC</b>	Delta-8 Tetrahydrocannabinol*	0.16	0.00	ND	<LOQ	<LOQ	
<b>THCV</b>	Tetrahydrocannabivarin*	0.16	15.1	0.476	0.554	0.515	
<b>CBG</b>	Cannabigerol*	0.16	11.4	1.79	2.00	1.89	
<b>CBGA</b>	Cannabigerolic acid*	0.16	74.7	ND	0.351	0.175	
<b>CBC</b>	Cannabichromene*	0.16	3.14	1.61	1.67	1.64	
<b>CBCA</b>	Cannabichromenic acid*	0.16	0.00	ND	ND	ND	
<b>CBN</b>	Cannabinol	0.16	21.5	0.762	0.945	0.853	
<b>Total THC</b>	Δ9THC + (THCA × 0.877)		0.490	69.4	69.7	69.5	
<b>Total CBD</b>	CBD + (CBDA × 0.877)		19.7	<LOQ	0.358	0.259	
<b>Total</b>			0.756	74.0	75.6	74.9	

## Compliance

<b>Pesticides</b>	Within limits	Analysis Date: 2/27/2020	Pass
<b>Solvents</b>	Within limits	Analysis Date: 2/27/2020	Pass
<b>Potency</b>	Within limits	Analysis Date: 2/27/2020	Pass

Bryce Kidd, Ph.D.  
 Lab Director

Aaron Troyer  
 Chief Science Officer



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**Terpene Analysis Date:** 2/25/2020  
**Terpene Batch ID:** TRP\_022520A

**Method:** JAOAC 2015.1  
**Unit:** %

Analyte	Avg.	Notes	Analyte	Avg.	Notes
β-Caryophyllene	3.60%		Guaiol	ND	
Humulene	1.17%		Isoborneol	ND	
Limonene	0.512%		Isopulegol	ND	
α-Bisabolol	0.441%		Nerol	ND	
β-Myrcene	0.414%		Pulegone	ND	
Linalool	0.296%		Sabinene Hydrate	ND	
Terpinolene	0.246%		Valencene	ND	
β-Ocimene	0.157%		cis-Nerolidol	ND	
Selinadiene	0.155%		trans-Nerolidol	ND	
Fenchol	0.122%		α-Cedrene	ND	
α-Terpineol	0.112%		α-Phellandrene	ND	
β-Pinene	0.0955%		β-Farnesene 1	ND	
Sabinene	0.0869%		β-Farnesene 2	ND	
α-Pinene	0.0430%		γ-Terpineol	ND	
α-Ocimene	0.0258%		<b>Total</b>	<b>7.56%</b>	
Eucalyptol	0.0231%				
α-Terpinene	0.0161%				
γ-Terpinene	0.0129%				
Borneol	0.0122%				
Δ3-Carene	0.0100%				
Camphene	0.00687%				
Fenchone	0.00457%				
Geraniol	0.00442%				
Azulene	ND				
Camphore	ND				
Caryophyllene Oxide	ND				
Cedrol	ND				
Cymene	ND				
Geranyl Acetate	ND				

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Pesticides Analysis Date: 2/27/2020  
 Pesticides Batch ID: PST\_022720A

Method: EN 15662  
 Unit: µg/g (ppm)

Pass 

Analyte	GZB-MNR-RRW	TCN-FSC-PGD	Limits	LOQ	Notes	Status	Analyte	GZB-MNR-RRW	TCN-FSC-PGD	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	0.1		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 Plan ID:** SP-200224-7-B  
**Sample Procedure:** 160721\_LAB-SOP\_SampleCollection-v007

## Pesticides Quality Control Data

Pesticides QC Analysis Date: 2/27/2020  
 Pesticides QC Batch ID: PST\_O22720A

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	0.995	1.00	99.5	50 - 150		Metalaxyl	ND	0.1	0.931	1.00	93.1	50 - 150	
Acephate	ND	0.1	0.895	1.00	89.5	50 - 150		Methiocarb	ND	0.1	0.970	1.00	97.0	50 - 150	
Acequinocyl	ND	1.5	1.05	1.00	105	50 - 150		Methomyl	ND	0.1	0.913	1.00	91.3	50 - 150	
Acetamiprid	ND	0.1	1.02	1.00	102	50 - 150		Methyl Parathion	ND	0.2	0.944	1.00	94.4	30 - 150	
Aldicarb	ND	0.1	0.979	1.00	97.9	50 - 150		MGK-264	ND	0.2	0.582	0.600	97.0	50 - 150	
Azoxystrobin	ND	0.1	0.982	1.00	98.2	50 - 150		Myclobutanil	ND	0.1	1.02	1.00	102	50 - 150	
Bifenazate	ND	0.1	1.08	1.00	108	50 - 150		Naled	ND	0.2	0.986	1.00	98.6	50 - 150	
Bifenthrin	ND	0.1	0.970	1.00	97.0	50 - 150		Oxamyl	ND	0.1	0.952	1.00	95.2	50 - 150	
Boscalid	ND	0.1	0.927	1.00	92.7	50 - 150		Paclobutrazol	ND	0.1	1.10	1.00	110	50 - 150	
Carbaryl	ND	0.1	1.00	1.00	100	50 - 150		Permethrins	ND	0.1	0.974	1.00	97.4	50 - 150	
Carbofuran	ND	0.1	0.994	1.00	99.4	50 - 150		Phosmet	ND	0.1	0.941	1.00	94.1	50 - 150	
Chlorantraniliprole	ND	0.1	1.02	1.00	102	50 - 150		Piperonyl Butoxide	ND	0.1	0.973	1.00	97.3	50 - 150	
Chlorfenapyr	ND	0.1	0.953	1.00	95.3	50 - 150		Prallethrin	ND	0.1	1.09	1.00	109	50 - 150	
Chlorpyrifos	ND	0.1	0.944	1.00	94.4	50 - 150		Propiconazole	ND	0.1	0.952	1.00	95.2	50 - 150	
Clofentezine	ND	0.1	0.973	1.00	97.3	50 - 150		Propoxur	ND	0.1	0.958	1.00	95.8	50 - 150	
Cyfluthrin	ND	0.5	0.891	1.00	89.1	50 - 150		Pyrethrins	ND	0.5	0.416	1.00	41.6	50 - 150	LR
Cypermethrin	ND	0.1	1.08	1.00	108	50 - 150		Pyridaben	ND	0.1	0.981	1.00	98.1	50 - 150	
Daminozide	ND	0.5	0.940	1.00	94.0	10 - 150		Spinosad	ND	0.1	1.05	1.00	105	50 - 150	
Diazinon	ND	0.1	0.942	1.00	94.2	50 - 150		Spiromesifen	ND	0.1	0.988	1.00	98.8	50 - 150	
Dichlorvos (DDVP)	ND	0.5	1.01	1.00	101	50 - 150		Spirotetramat	ND	0.1	0.884	1.00	88.4	50 - 150	
Dimethoate	ND	0.1	0.995	1.00	99.5	50 - 150		Spiroxamine	ND	0.1	0.941	1.00	94.1	50 - 150	
Ethoprophos	ND	0.1	0.912	1.00	91.2	50 - 150		Tebuconazole	ND	0.1	0.927	1.00	92.7	50 - 150	
Etofenprox	ND	0.1	0.956	1.00	95.6	50 - 150		Thiacloprid	ND	0.1	1.05	1.00	105	50 - 150	
Etoxazole	ND	0.1	1.08	1.00	108	50 - 150		Thiamethoxam	ND	0.1	1.03	1.00	103	50 - 150	
Fenoxycarb	ND	0.1	0.972	1.00	97.2	50 - 150		Trifloxystrobin	ND	0.1	1.00	1.00	100	50 - 150	
Fenpyroximate	ND	0.1	0.985	1.00	98.5	50 - 150									
Fipronil	ND	0.1	0.923	1.00	92.3	50 - 150									
Flonicamid	ND	0.1	1.02	1.00	102	50 - 150									
Fludioxonil	ND	0.1	0.984	1.00	98.4	50 - 150									
Hexythiazox	ND	0.1	0.995	1.00	99.5	50 - 150									
Imazalil	ND	0.1	0.991	1.00	99.1	50 - 150									
Imidacloprid	ND	0.1	1.07	1.00	107	50 - 150									
Kresoxim-methyl	ND	0.1	0.937	1.00	93.7	50 - 150									
Malathion	ND	0.1	1.02	1.00	102	50 - 150									

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## Residual Solvents Sample Data

Solvents Analysis Date: 2/27/2020  
 Solvents Batch ID: RES\_022720A

Method: EPA 5021A  
 Unit: µg/g (ppm)

Pass 

Analyte	GZB-MNR-RRW	TCN-FSC-PGD	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	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	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	ND	ND	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

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## Residual Solvents Quality Control Data

Solvents QC Analysis Date: 2/27/2020  
 Solvents QC Batch ID: RES\_022720A

Method: EPA 5021A  
 Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
1,4-Dioxane	ND	50.0	980	1000	98.0	70 - 130	
2-Butanol	ND	250.0	961	1000	96.1	70 - 130	
2-Ethoxyethanol	ND	50.0	927	1000	92.7	70 - 130	
Acetone	ND	250.0	915	1000	91.5	70 - 130	
Acetonitrile	ND	50.0	937	1000	93.7	70 - 130	
Benzene	ND	2.0	18.6	20.0	92.8	70 - 130	
Butanes	ND	250.0	1800	2000	90.2	70 - 130	
Cumene	ND	50.0	969	1000	96.9	70 - 130	
Cyclohexane	ND	50.0	913	1000	91.3	70 - 130	
Ethyl Acetate	ND	250.0	933	1000	93.3	70 - 130	
Ethyl Ether	ND	250.0	903	1000	90.3	70 - 130	
Ethylene Glycol	ND	250.0	958	1000	95.8	70 - 130	
Ethylene Oxide	ND	50.0	900	1000	90.0	70 - 130	
Heptane	ND	250.0	894	1000	89.4	70 - 130	
Hexanes	ND	50.0	4560	5000	91.2	70 - 130	
Isopropanol (2-Propanol)	ND	50.0	974	1000	97.4	70 - 130	
Isopropyl Acetate	ND	250.0	952	1000	95.2	70 - 130	
Methanol	ND	250.0	889	1000	88.9	70 - 130	
Dichloromethane	ND	50.0	924	1000	92.4	70 - 130	
Pentanes	ND	250.0	2740	3000	91.3	70 - 130	
Propane	ND	250.0	851	1000	85.1	70 - 130	
Tetrahydrofuran	ND	50.0	932	1000	93.2	70 - 130	
Toluene	ND	50.0	959	1000	95.9	70 - 130	
Xylenes	ND	50.0	3860	4000	96.4	70 - 130	

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## 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 exceeds the detection limit
LB	Control acceptance criteria are exceeded low and the associated sample is below the regulatory limit
ME	Marginal Exceedance
LR	Low Recovery Analyte
LOQ	Limit of Quantitation