



SMITHERS

Smithers AMS LLC
790 Main St
Wareham, MA 02571
License #: IL281355
Phone: 508-295-2550

Certificate of Analysis



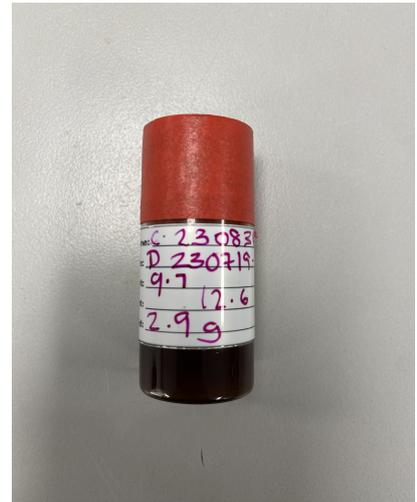
Customer: Real Isolates LLC

Address:

48 Dunham Ridge Rd
Beverly MA 01915

Phone: 781-757-1996

License #: 25220200P

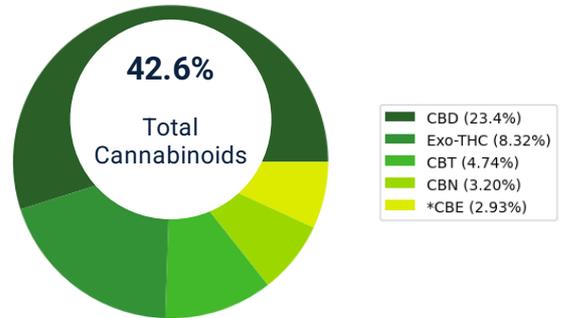


Sample ID: 9259
Sample Name: C230831-2/230719-1
Sample Type: Concentrate
Received Date: 12/14/2023
Report Date: 12/19/2023
METRC ID: N/A
Client Batch ID: C230831-2/230719-1
Client Sample Size: 2.9 g

Results Summary

Category	Result
Cannabinoids Extended 12/19/2023	TESTED
Heavy Metals 12/17/2023	✓ PASS
Microbial Impurities 12/18/2023	✓ PASS
Residual Solvents 12/19/2023	✓ PASS
Mycotoxins 12/16/2023	✓ PASS

Cannabinoid Distribution (%)



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Cannabinoids Extended

Date Started: 12/15/2023
Instrument: UPLC-PDA

Date Completed: 12/19/2023
Method: TP-09.001.05 & TP-09.013.01

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOQ (%)
CBD	23.4	234	13.5
Exo-THC	8.32	83.2	0.385
CBT	4.74	47.4	0.385
CBN	3.20	32.0	0.385
*CBE	2.93	29.3	0.385
CBDVA	ND	ND	0.385
CBDV	ND	ND	0.385
CBDA	ND	ND	0.674
CBGA	ND	ND	0.385
CBG	ND	ND	0.385
Δ9-THCV	ND	ND	0.385
Δ8-THCV	ND	ND	0.385
THCVA	ND	ND	0.385
CBNA	ND	ND	0.385
Δ9-THC	ND	ND	0.674
Δ8-THC	ND	ND	0.385
CBL	ND	ND	0.385
THCA-A	ND	ND	0.674
CBC	ND	ND	0.385
CBCA	ND	ND	0.385
CBLA	ND	ND	0.385
*CBND	ND	ND	0.385
Total THC	ND	ND	
Total CBD	23.4	234	
Total Cannabinoids	42.6	426	

*CBND and CBE are not currently included on the ISO 17025 accreditation scope

Total THC = Δ9-THC + (THCA-A x 0.877)

Total CBD = CBD + (CBDA x 0.877)

Total Cannabinoids = Sum of all cannabinoids without THC/CBD corrections.

LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected.

Heavy Metals

PASS

Date Started: 12/15/2023
Instrument: ICP-MS

Date Completed: 12/17/2023
Method: TP-09.007.01

Analyst: Meagan Mattos
Deviation: N/A

Heavy Metals	LOQ (ppb)	Limit (ppb)	Status
Arsenic	48.7	200	Pass
Cadmium	48.7	200	Pass
Lead	48.7	500	Pass
Mercury	24.4	100	Pass

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Microbial Impurities

✓ PASS

Date Started: 12/14/2023
Instrument: TEMPO & Gene-Up

Date Completed: 12/18/2023
Method: TP-09.010.01 & TP-09.011.01

Analyst: Lana Rivera
Deviation: N/A

Microbials	Limit (CFU/g)	Status
Coliforms	1000	Pass
Bile-Tolerant Gram-Negative Bacteria	1000	Pass
Yeast & Mold	10000	Pass
Aerobic Bacteria	100000	Pass
E.coli		Pass
Salmonella		Pass

Residual Solvents

✓ PASS

Date Started: 12/14/2023
Instrument: HS-GC-MS

Date Completed: 12/19/2023
Method: TP-09.005.03

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Residual Solvent	LOQ (ppm)	Limit (ppm)	Status
n-Propane	1.54	12.0	Pass
Iso-butane	1.54	12.0	Pass
n-Butane	1.54	12.0	Pass
Methanol	92.9	3000	Pass
Ethylene Oxide	0.619		Pass
n-Pentane	92.9	5000	Pass
Ethanol	92.9	5000	Pass
Ethyl Ether	92.9	5000	Pass
Acetone	92.9	5000	Pass
Isopropyl Alcohol	92.9	5000	Pass
Acetonitrile	92.9	410	Pass
Methylene Chloride	0.619	600	Pass
n-Hexane	92.9	290	Pass
Ethyl Acetate	92.9	5000	Pass
Chloroform	0.619	60.0	Pass
1,2-Dichloroethane	0.619	1870	Pass
Benzene	0.619		Pass
n-Heptane	92.9	5000	Pass
Trichloroethylene	0.619	80.0	Pass
Toluene	92.9	890	Pass
Total Xylenes	46.4	2170	Pass

Mycotoxins

✓ PASS

Date Started: 12/14/2023
Instrument: LC-MS/MS

Date Completed: 12/16/2023
Method: TP-09.009.04

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Mycotoxins	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	4.36		
Aflatoxin B2	3.27		
Aflatoxin G1	3.27		
Aflatoxin G2	4.36		
Ochratoxin A	3.27		
Total Mycotoxins	3.27	20.0	Pass

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Eric Steele, Lab Director
12/19/2023

END OF REPORT

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