

Sample **RBF001-190109 CBD Isolate**

Sample ID **SD190111-003 (33356)** Matrix **Isolate (Other Cannabis Product)** Sample Size Batch Size Batch ID **RBF001-190109**

Sampled - Received **Jan 11, 2019** Reported **Jan 15, 2019**

Analyses executed **CAN, RES**

CAN - Cannabinoid Profile Analysis

Analyzed **Jan 15, 2019** | Instrument **HPLC** | Method **M-004, SOP-009, SOP-015, SOP-019**

Analyte	LOD ppm	LOQ ppm	Result %	Result mg/g
Tetrahydrocannabinol (THC)	0.04	0.15	<LOQ	<LOQ
Tetrahydrocannabinolic Acid (THCA)	0.03	0.11	ND	ND
Cannabidiol (CBD)	0.01	0.04	≥ 99.9	≥ 999
Cannabidiolic Acid (CBDA)	0.01	0.02	ND	ND
Cannabinol (CBN)	0.03	0.1	ND	ND
Cannabigerol (CBG)	0.03	0.09	ND	ND
Total THC (THCa * 0.877 + THC)			0.00	0.00
Total CBD (CBDA * 0.877 + CBD)			≥ 99.90	≥ 999.00

RES - Residual Solvents Testing Analysis

Analyzed **Jan 15, 2019** | Instrument **GC/FID with Headspace Analyzer** | Method **M-002, SOP-013, SOP-018, SOP-02**

Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g	Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g
Propane (Prop)	0.2	0.5	ND	5000	Ethylene Oxide (EthOx)	0.2	0.5	ND	0
Butane (But)	0.2	0.5	ND	5000	Methanol (Metha)	0.2	0.5	ND	3000
Pentane (Pen)	0.2	0.5	ND	5000	Ethanol (Ethan)	0.2	0.5	ND	5000
Ethyl Ether (EthEt)	0.2	0.5	ND	5000	Acetone (Acet)	0.2	0.5	ND	5000
Isopropanol (2-Pro)	0.2	0.5	ND	5000	Acetonitrile (Acetonit)	0.2	0.5	ND	410
Methylene Chloride (MetCh)	0.2	0.5	ND	0	Hexane (Hex)	0.2	0.5	ND	290
Ethyl Acetate (EthAc)	0.2	0.5	ND	5000	Chloroform (Clo)	0.2	0.5	ND	0
Benzene (Ben)	0.2	0.5	ND	0	1-2-Dichloroethane (12-Dich)	0.2	0.5	ND	0
Heptane (Hep)	0.2	0.5	172.6	5000	Trichloroethylene (TriClEth)	0.2	0.5	ND	0
Toluene (Toluene)	0.2	0.5	ND	890	O,M,P-Xylene (tot-xyf)	0.2	0.5	ND	2170

NT Not Tested
ND Not Detected
LOD Limit of Detection
LOQ Limit of Quantification
<LOQ Detected
>ULOL Above upper limit of linearity
CFU/g Colony Forming Units per 1 gram
TNTC Too Numerous to Count



Authorized Signature

Brandon Starr

Brandon Starr, Quality Assurance Manager

Tue, 15 Jan 2019 15:58:54 -0800

PharmLabs San Diego | 3421 Hancock St, Second Floor, San Diego, CA 92110 | 619.356.0898 | ISO/IEC 17025:2005 Certification L17-427-1

*This report shall not be reproduced except in full, without the written approval of the lab. This report is for informational purposes only and should not be used to diagnose, treat or prevent any disease. Results are only for samples and batches indicated. Results are reported on an "as received" basis, unless indicated otherwise.