



Certificate of Analysis

Sample:KN20405014-014

Harvest/Lot ID: 1011

Batch#: 032022-D10-SH

Seed to Sale# N/A

Batch Date: 04/01/22

Sample Size Received: 14 ml

Total Weight/Volume: N/A

Retail Product Size: 2 ml

ordered : 04/01/22

sampled : 04/01/22

Completed: 04/14/22

Sampling Method: SOP Client Method

Apr 14, 2022 | D8-Hi
2232 Dell Range Blvd.
Cheyenne, WY, 82009, US



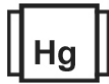
TESTED

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PRODUCT IMAGE SAFETY RESULTS



Pesticides
TESTED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals
Solvents
TESTED



Filtration
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
TESTED

MISC.



Cannabinoid

TESTED



CBN
2.3611%
CBN/Disposable : 47.222 mg



D10-THC
69.5724%
D10-THC/Disposable : 1391.448 mg



Total Cannabinoids
75.345%
Total Cannabinoids/Disposable : 1506.9 mg

	TOTAL THC	TOTAL CBD	TOTAL CBG	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	EXO-THC	D9-THC	D8-THC	D10-THC	CBC	THCA	D8-THCO	D9-THCO	THCO
%	0.4529	1.6519	0.2782	0.0513	0.2354	0.0311	0.251	1.4455	ND	2.3611	ND	0.4529	0.9443	69.5724	ND	ND	ND	ND	ND
mg/ml	4.529	16.519	2.782	0.513	2.354	0.311	2.51	14.455	ND	23.611	ND	4.529	9.443	695.724	ND	ND	ND	ND	ND
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Filtration		PASSED	
Analyzed By	Weight	Extraction date	Extracted By
1	0.5694g	04/07/22	1692
Analyte	LOD	Pass/Fail	Result
Filtration and Foreign Material	0.3	Pass	ND
Analysis Method -SOP.T.40.013 Batch Date : 04/07/22 08:28:32			
Analytical Batch -KN002224FIL Reviewed On - 04/07/22 13:23:34			
Instrument Used : E-AM5-138 Microscope			
Running On :			

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. A SW-213 Stereo Microscope is used for inspection.

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
113	0.2204g	04/06/22 10:04:25	143

Analysis Method -Expanded Measurement of Uncertainty: Flower Matrix d9-THC:12.7%, THCA: 9.5%, TOTAL THC 11.1%. These uncertainties represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor k=2 for a normal distribution. Reviewed On - 04/07/22 11:13:58 Batch Date : 04/05/22 17:08:19

Dilution : 40
Reagent : 081321.R04; 033122.R01; 031822.R11
Consumables : 947.251; 12123-046CC-046
Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV/PDA detection (HPLC-UV/PDA). (Method: SOP.T.30.031.TN for sample prep and Shimadzu High Sensitivity Method SOP.T.40.031 for analysis).
*Based on FL action limits.

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Sue Ferguson
Lab Director

State License # n/a
ISO Accreditation # 17025:2017

Sue Ferguson
Signature

04/14/22

Signed On



Certificate of Analysis

TESTED

D8-Hi

Sample : KN20405014-014
Harvest/Lot ID: 1011

2232 Dell Range Blvd.
Cheyenne, WY, 82009, US
Telephone: (954) 778-3071
Email: info@virag.bio

Batch# : 032022-D10-SH
Sampled : 04/01/22
Odered : 04/01/22

Sample Size Received : 14 ml
Total Weight/Volume : N/A
Completed : 04/14/22 Expires: 04/14/23
Sample Method : SOP Client Method

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Terpenes

TESTED

Terpenes	LOD(%)	mg/ml	%	Result (%)	Terpenes	LOD(%)	mg/ml	%	Result (%)
TRANS-CARYOPHYLLENE	0.007	3.872	0.3872		ISOBORNEOL	0.007	ND	ND	
GUAIOL	0.007	ND	ND		FENCHONE	0.007	ND	ND	
LIMONENE	0.007	15.254	1.5254		GAMMA-TERPINENE	0.007	ND	ND	
LINALOOL	0.007	6.862	0.6862		GERANIOL	0.007	ND	ND	
NEROL	0.007	ND	ND						
ALPHA-PHELLANDRENE	0.007	ND	ND						
PULEGONE	0.007	ND	ND						
SABINENE	0.007	ND	ND						
SABINENE HYDRATE	0.007	ND	ND						
TERPINOLENE	0.007	0.985	0.0985						
GERANYL ACETATE	0.007	ND	ND						
TRANS-NEROLIDOL	0.007	ND	ND						
VALENCENE	0.007	ND	ND						
ISOPULEGOL	0.007	ND	ND						
ALPHA-HUMULENE	0.007	2.944	0.2944						
ALPHA-PINENE	0.007	3.765	0.3765						
ALPHA-TERPINENE	0.007	ND	ND						
BETA-MYRCENE	0.007	3.101	0.3101						
BETA-PINENE	0.007	0.214	0.0214						
BORNEOL	0.013	ND	ND						
CAMPHENE	0.007	ND	ND						
CAMPHOR	0.013	ND	ND						
CARYOPHYLLENE OXIDE	0.007	1.57	0.157						
CEDROL	0.007	ND	ND						
ALPHA-BISABOLOL	0.007	0.275	0.0275						
ALPHA-CEDRENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
3-CARENE	0.007	<0.2	<0.02						
FENCHYL ALCOHOL	0.007	ND	ND						
HEXAHYDROTHYMOL	0.007	ND	ND						
EUCALYPTOL	0.007	ND	ND						
Total (%)			3.8842						



Terpenes

TESTED

Analyzed by: 1 Weight: 1g Extraction date: NA Extracted By: NA

Analysis Method - SOP.T.40.090
Analytical Batch - KN002239TER
Instrument Used : E-SHI-109 Terpenes
Running On :
Batch Date : 04/09/22 14:12:38

Reviewed On - 04/14/22 18:18:45

Dilution : 1
Reagent :
Consumables :
Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography - Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.090 Terpenoid Analysis Via GC-MS. Analytes ISO Pending

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Sue Ferguson
Lab Director

State License # n/a
ISO Accreditation # 17025:2017

Sue Ferguson
Signature

04/14/22

Signed On



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D8-Hi

 Sample : KN20405014-014
 Harvest/Lot ID: 1011

 2232 Dell Range Blvd.
 Cheyenne, WY, 82009, US
 Telephone: (954) 778-3071
 Email: info@virag.bio

 Batch# : 032022-D10-SH
 Sampled : 04/01/22
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 Sample Size Received : 14 ml
 Total Weight/Volume : N/A
 Completed : 04/14/22 Expires: 04/14/23
 Sample Method : SOP Client Method

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Pesticides

TESTED

Pesticides	LOD	Units	Action Level	Pass/Fail	Result	Pesticides	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.01	ppm	0.3	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
ACEPHATE	0.01	ppm	3	PASS	ND	PRALLETHRIN	0.01	ppm	0.4	PASS	ND
ACEQUINOCYL	0.01	ppm	2	PASS	ND	PROPICONAZOLE	0.01	ppm	1	PASS	ND
ACETAMIPRID	0.01	ppm	3	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	PYRETHRINS	0.01	ppm	1	PASS	ND
AZOXYSTROBIN	0.01	ppm	3	PASS	ND	PYRIDABEN	0.01	ppm	3	PASS	ND
BIFENAZATE	0.01	ppm	3	PASS	ND	SPINETORAM	0.01	ppm	3	PASS	ND
BIFENTHRIN	0.01	ppm	0.5	PASS	ND	SPIROMESIFEN	0.01	ppm	3	PASS	ND
BOSCALID	0.01	ppm	3	PASS	ND	SPIROTETRAMAT	0.01	ppm	3	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	TEBUCONAZOLE	0.01	ppm	1	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	3	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	PASS	ND	THIAMETHOXAM	0.01	ppm	1	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	TOTAL SPINOSAD	0.01	ppm	3	PASS	ND
CLOFENTZINE	0.01	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	3	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND						
CYPERMETHRIN	0.01	ppm	1	PASS	ND						
DAMINOZIDE	0.01	ppm	0.1	PASS	ND						
DIAZANON	0.01	ppm	0.2	PASS	ND						
DICHLORVOS	0.01	ppm	0.1	FAIL	0.3748						
DIMETHOATE	0.01	ppm	0.1	PASS	ND						
DIMETHOMORPH	0.01	ppm	3	PASS	ND						
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND						
ETOFENPROX	0.01	ppm	0.1	PASS	ND						
ETOXAZOLE	0.01	ppm	1.5	PASS	ND						
FENHEXAMID	0.01	ppm	3	PASS	1.6707						
FENOXYCARB	0.01	ppm	0.1	PASS	ND						
FENPYROXIMATE	0.01	ppm	2	PASS	ND						
FIPRONIL	0.01	ppm	0.1	PASS	ND						
FLONICAMID	0.01	ppm	2	PASS	ND						
FLUDIOXONIL	0.01	ppm	3	PASS	ND						
HEXYTHIAZOX	0.01	ppm	2	PASS	ND						
IMAZALIL	0.01	ppm	0.1	PASS	ND						
IMIDACLOPRID	0.01	ppm	3	PASS	ND						
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND						
MALATHION	0.01	ppm	2	PASS	ND						
METALAXYL	0.01	ppm	3	PASS	ND						
METHIOCARB	0.01	ppm	0.1	PASS	ND						
METHOMYL	0.01	ppm	0.1	PASS	ND						
MEVINPHOS	0.01	ppm	0.1	PASS	ND						
MYCLOBUTANIL	0.01	ppm	3	PASS	ND						
NALED	0.01	ppm	0.5	PASS	ND						
OXAMYL	0.01	ppm	0.5	PASS	ND						
PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND						
PERMETHRINS	0.01	ppm	1	PASS	ND						
PHOSMET	0.01	ppm	0.2	PASS	ND						



Pesticides

TESTED

Analyzed by 1	Weight 0.5456g	Extraction date 04/06/22 09:04:43	Extracted By 143
Analysis Method - SOP.T.30.060, SOP.T.40.060,		Reviewed On : 04/08/22 09:54:28	
Analytical Batch : KN002213PES		Batch Date : 04/05/22 16:06:46	
Instrument Used : E-SHI-125 Pesticides			
Running On : 04/06/22 09:40:06			
Dilution : 10			
Reagent : 033122.R24; 110521.03; 031822.R01; 033022.R17; 033022.R18; 031822.R40			
Consumables : 210419634; 947.251			
Pesticide analysis is performed using LC-MSMS which can quantify down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 61 Pesticides. (Methods: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMSMS). *Based on FL action limits. *			

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Sue Ferguson

Lab Director

 State License # n/a
 ISO Accreditation # 17025:2017



Signature

04/14/22

Signed On



Certificate of Analysis

TESTED

D8-Hi

 2232 Dell Range Blvd.
 Cheyenne, WY, 82009, US
 Telephone: (954) 778-3071
 Email: info@virag.bio

 Sample : KN20405014-014
 Harvest/Lot ID: 1011

 Batch# : 032022-D10-SH
 Sampled : 04/01/22
 Odered : 04/01/22

 Sample Size Received : 14 ml
 Total Weight/Volume : N/A
 Completed : 04/14/22 Expires: 04/14/23
 Sample Method : SOP Client Method

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Residual Solvents

TESTED

Solvent	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	500	ppm	2100	PASS	ND
BUTANES (N-BUTANE)	500	ppm	2000	PASS	ND
METHANOL	25	ppm	3000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
PENTANES (N-PENTANE)	75	ppm	5000	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ETHER	50	ppm	5000	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
ACETONE	75	ppm	5000	PASS	ND
2-PROPANOL	50	ppm	500	PASS	449.673
ACETONITRILE	6	ppm	410	PASS	ND
DICHLOROMETHANE	12.5	ppm	600	PASS	ND
N-HEXANE	25	ppm	290	PASS	ND
ETHYL ACETATE	40	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	60	PASS	ND
BENZENE	0.1	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	80	PASS	ND
TOLUENE	15	ppm	890	PASS	ND
TOTAL XYLENES - M, P & O - DIMETHYLBENZENE	15	ppm	2170	PASS	ND



Residual Solvents

TESTED

Analyzed by 1	Weight 0.02921g	Extraction date 04/11/22 03:04:58	Extracted By 138
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Analysis Method -SOP.T.40.032

Analytical Batch -KN0022375OL

Instrument Used : E-SHI-106 Residual Solvents

Running On :

Batch Date : 04/08/22 09:45:38

Reviewed On - 04/11/22 18:11:26

Dilution : 1

Reagent :

Consumables :

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 22 residual solvents. (Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS). Analytes ISO pending. *Based on FL action limits.



Certificate of Analysis

TESTED

D8-Hi

 2232 Dell Range Blvd.
 Cheyenne, WY, 82009, US
 Telephone: (954) 778-3071
 Email: info@virag.bio

 Sample : KN20405014-014
 Harvest/Lot ID: 1011

 Batch# : 032022-D10-SH
 Sampled : 04/01/22
 Odered : 04/01/22

 Sample Size Received : 14 ml
 Total Weight/Volume : N/A
 Completed : 04/14/22 Expires: 04/14/23
 Sample Method : SOP Client Method

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	Microbials	PASSED		Mycotoxins	PASSED
-----------------------------------------------------------------------------------	-------------------	---------------	-----------------------------------------------------------------------------------	-------------------	---------------

Analyte	LOD	Result	Pass / Fail
LISTERIA MONOCYTOGENE	2000	ND	TESTED
ESCHERICHIA COLI SHIGELLA SPP	1726	ND	PASS
SALMONELLA SPECIFIC GENE	10000	ND	PASS
ASPERGILLUS FLAVUS	10000	ND	PASS
ASPERGILLUS FUMIGATUS	10000	ND	PASS
ASPERGILLUS NIGER	10000	ND	PASS
ASPERGILLUS TERREUS	10000	ND	PASS

 Analysis Method -SOP.T.40.043
 Analytical Batch -KN002229MIC Batch Date : 04/07/22 12:31:24
 Instrument Used : Micro E-HEW-069
 Running On :

Analyzed by	Weight	Extraction date	Extracted By
1	1.0185g	04/07/22 12:04:50	1692

Dilution : 1

Reagent : 030121.01; 121521.01; 122021.01

Consumables :

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXIN G2	0.002	ppm	ND	PASS	0.02
AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
OCHRATOXIN A+	0.002	ppm	ND	PASS	0.02
TOTAL MYCOTOXINS	0.002	ppm	ND	TESTED	

 Analysis Method -SOP.T.30.060, SOP.T.40.060
 Analytical Batch -KN002214MYC | Reviewed On - 04/08/22 10:19:32
 Instrument Used : E-SHI-125 Mycotoxins
 Running On : 04/06/22 09:40:10 | Batch Date : 04/05/22 16:07:51

Analyzed by	Weight	Extraction date	Extracted By
143	0.5456g	04/06/22 09:04:49	143

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.060 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg. Analytes ISO pending. *Based on FL action limits.

	Heavy Metals	PASSED
-------------------------------------------------------------------------------------	---------------------	---------------

Metal	LOD	Unit	Result	Pass / Fail	Action Level
ARSENIC-AS	0.02	ppm	ND	PASS	1.5
CADMIUM-CD	0.02	ppm	ND	PASS	0.5
MERCURY-HG	0.02	ppm	ND	PASS	3
LEAD-PB	0.02	ppm	ND	PASS	0.5

Analyzed by	Weight	Extraction date	Extracted By
12	0.2532g	04/09/22 04:04:51	12

 Analysis Method -SOP.T.40.050, SOP.T.30.052
 Analytical Batch -KN002216HEA | Reviewed On - 04/08/22 18:16:22
 Instrument Used : Metals ICP/MS
 Running On : | Batch Date : 04/05/22 16:15:24

Dilution : 50

 Reagent : 121421.04; 011022.R08; 020422.R07; 011022.R07
 Consumables : 107702-05-081520; 12235-110CD-110C

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.