



Certificate of Analysis

Sample:KN20405014-013

Harvest/Lot ID: 1010

Batch#: 032022-D10-PE

Seed to Sale# N/A

Batch Date: 04/01/22

Sample Size Received: 14 ml

Total Batch Size: N/A

Retail Product Size: 2 ml

Ordered : 04/01/22

Sampled : 04/01/22

Completed: 04/14/22

Sampling Method: N/A

Apr 14, 2022 | D8-Hi

2232 Dell Range Blvd.
Cheyenne, WY, 82009, US



TESTED

Page 1 of 6

PRODUCT IMAGE

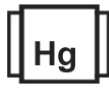


mg D8 per 2ml

SAFETY RESULTS



Pesticides
TESTED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals Solvents
PASSED



Filtration
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
TESTED

MISC.

Cannabinoid

TESTED



D8-THC
0.9474%
D8-THC/Disposable : 18.948 mg



D10-THC
67.0203%
D10-THC/Disposable : 1340.406 mg



Total Cannabinoids
72.9027%
Total Cannabinoids/Disposable : 1458.054 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	THC-O
%	0.4568	1.6904	0.3046	0.0377	0.231	0.0435	0.2665	1.4879	ND	2.4116	ND	0.4568	0.9474	67.0203	ND	ND	ND	ND	ND
mg/ml	4.568	16.904	3.046	0.377	2.31	0.435	2.665	14.879	ND	24.116	ND	4.568	9.474	670.203	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
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by:
113

Weight:
0.2156g

Extraction date:
04/06/22 10:04:21

Extracted by:
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.

Analytical Batch : KN002217POT
Instrument Used : HPLC E-SHI-008
Running on : N/A

Reviewed On : 04/07/22 11:13:23
Batch Date : 04/05/22 17:08:19

Dilution : 40
Reagent : 081321.R04; 033122.R01; 031822.R11
Consumables : 947.251; 12123-046CC-046
Pipette : N/A

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.40.020 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

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D8-Hi

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

Sample : KN20405014-013
Harvest/Lot ID: 1010

Batch# : 032022-D10-PE
Sampled : 04/01/22
Ordered : 04/01/22

Sample Size Received : 14 ml
Total Batch Size : 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	3.21	0.321		ISOBORNEOL	0.007	ND	ND	
GUAIOL	0.007	ND	ND		FENCHONE	0.007	ND	ND	
LIMONENE	0.007	4.005	0.4005		GAMMA-TERPINENE	0.007	0.314	0.0314	
LINALOOL	0.007	0.374	0.0374		GERANIOL	0.007	ND	ND	
NEROL	0.007	ND	ND		<p>Analyzed by: 1 Weight: 1g Extraction date: N/A Extracted by: N/A</p> <p>Analysis Method : SOP.T.40.090 Reviewed On : 04/14/22 18:18:38</p> <p>Analytical Batch : KN002239TER Batch Date : 04/09/22 14:12:38</p> <p>Instrument Used : E-SHI-109 Terpenes</p> <p>Running on : N/A</p> <p>Dilution : 1</p> <p>Reagent : N/A</p> <p>Consumables : N/A</p> <p>Pipette : N/A</p> <p>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</p>				
ALPHA-PHELLANDRENE	0.007	ND	ND						
PULEGONE	0.007	ND	ND						
SABINENE	0.007	<0.2	<0.02						
SABINENE HYDRATE	0.007	ND	ND						
TERPINOLENE	0.007	ND	ND						
GERANYL ACETATE	0.007	ND	ND						
TRANS-NEROLIDOL	0.007	3.095	0.3095						
VALENCENE	0.007	<0.2	<0.02						
ISOPULEGOL	0.007	ND	ND						
ALPHA-HUMULENE	0.007	1.068	0.1068						
ALPHA-PINENE	0.007	2.013	0.2013						
ALPHA-TERPINENE	0.007	ND	ND						
BETA-MYRCENE	0.007	6.142	0.6142						
BETA-PINENE	0.007	1.37	0.137						
BORNEOL	0.013	ND	ND						
CAMPHENE	0.007	ND	ND						
CAMPHOR	0.013	ND	ND						
CARYOPHYLLENE OXIDE	0.007	<0.2	<0.02						
CEDROL	0.007	ND	ND						
ALPHA-BISABOLOL	0.007	0.57	0.057						
ALPHA-CEDRENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
3-CARENE	0.007	<0.2	<0.02						
FENCHYL ALCOHOL	0.007	<0.2	<0.02						
HEXAHYDROTHYMOL	0.007	ND	ND						
EUCALYPTOL	0.007	ND	ND						
Total (%)				2.2161					



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Email: info@virag.bio

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Ordered : 04/01/22

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

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Pesticides

TESTED

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	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
CLOFENTEZINE	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	0.5845						
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	1.793						
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						

Analyzed by: 1 **Weight:** 0.5159g **Extraction date:** 04/06/22 09:04:37 **Extracted by:** 143
Analysis Method: SOP.T.30.060, SOP.T.40.060
Analytical Batch: KN002213PES **Reviewed On:** 04/08/22 09:53:59
Instrument Used: E-SHI-125 Pesticides **Batch Date:** 04/05/22 16:06:46
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
Pipette: N/A

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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 Email: info@virag.bio

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 Harvest/Lot ID: 1010

 Batch# : 032022-D10-PE
 Sampled : 04/01/22
 Ordered : 04/01/22

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

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Residual Solvents

PASSED

Solvents	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	ND
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

Analyzed by: N/A	Weight: N/A	Extraction date: N/A	Extracted by: N/A
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 Analysis Method : SOP.T.40.032
 Analytical Batch : KN002237SOL
 Instrument Used : E-SHI-106 Residual Solvents
 Running on : N/A

 Reviewed On : 04/11/22 18:11:19
 Batch Date : 04/08/22 09:45:38

 Dilution : 1
 Reagent : N/A
 Consumables : N/A
 Pipette : N/A

Residual solvents analysis 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). *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

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Harvest/Lot ID: 1010

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Cheyenne, WY, 82009, US
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Batch# : 032022-D10-PE
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Sample Size Received : 14 ml
Total Batch Size : N/A
Completed : 04/14/22 Expires: 04/14/23
Sample Method : SOP Client Method

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	Microbial	PASSED		Mycotoxins	PASSED
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Analyte	LOD	Units	Result	Pass / Fail	Action Level
LISTERIA MONOCYTOGENE	2000	RFU	ND	TESTED	
ESCHERICHIA COLI SHIGELLA SPP	1726	RFU	ND	PASS	1726
SALMONELLA SPECIFIC GENE	10000	RFU	ND	PASS	10000
ASPERGILLUS FLAVUS	10000	RFU	ND	PASS	10000
ASPERGILLUS FUMIGATUS	10000	RFU	ND	PASS	10000
ASPERGILLUS NIGER	10000	RFU	ND	PASS	10000
ASPERGILLUS TERREUS	10000	RFU	ND	PASS	10000

Analyzed by: 1 Weight: 1.0011g Extraction date: 04/07/22 12:04:45 Extracted by: 1692

Analysis Method : SOP.T.40.043
Analytical Batch : KN002229MIC Reviewed On : 04/08/22 17:07:58
Instrument Used : Micro E-HEW-069 Batch Date : 04/07/22 12:31:24
Running on : N/A

Dilution : 1
Reagent : 030121.01; 121521.01; 122021.01
Consumables : N/A
Pipette : N/A

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	

Analyzed by: 143 Weight: 0.5159g Extraction date: 04/06/22 09:04:47 Extracted by: 143

Analysis Method : SOP.T.30.060, SOP.T.40.060
Analytical Batch : KN002214MYC Reviewed On : 04/08/22 10:19:23
Instrument Used : E-SHI-125 Mycotoxins Batch Date : 04/05/22 16:07:51
Running on : 04/06/22 09:40:10

Dilution : N/A
Reagent : aflatoxin_g2; aflatoxin_g1; aflatoxin_b2; aflatoxin_b1; ochratoxin_a; total_mycotoxins
Consumables : 0.02; 0.02; 0.02; 0.02; 0.02
Pipette : N/A

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.065 Procedure for Mycotoxins Quantification Using LCMSMS. LOQ 5.0 ppb).
*Based on FL action limits.

	Heavy Metals	PASSED
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Metal	LOD	Units	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: 12 Weight: 0.2849g Extraction date: 04/09/22 04:04:45 Extracted by: 12

Analysis Method : SOP.T.40.050, SOP.T.30.052
Analytical Batch : KN002216HEA Reviewed On : 04/08/22 18:16:12
Instrument Used : Metals ICP/MS Batch Date : 04/05/22 16:15:24
Running on : N/A

Dilution : 50
Reagent : 121421.04; 011022.R08; 020422.R07; 011022.R07
Consumables : 107702-05-081520; 12235-110CD-110C
Pipette : N/A

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.082 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.082TN Heavy Metals Analysis via ICP-MS.



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Sample Method : SOP Client Method

Page 6 of 6

	Filth/Foreign Material	PASSED
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Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	1	detect/g	ND	PASS	3

Analyzed by:	Weight:	Extraction date:	Extracted by:

Analysis Method : SOP.T.30.074, SOP.T.40.074
Analytical Batch : KN002224FIL
Instrument Used : E-AMS-138 Microscope
Running on : N/A
Reviewed On : 04/07/22 13:23:19
Batch Date : 04/07/22 08:28:32

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. A SW-2T13 Stereo Microscope is use for inspection.

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Sue Ferguson

Lab Director

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Signature

04/14/22

Signed On