



# Certificate of Analysis

Sample:KN20405014-007

Harvest/Lot ID: 1007

Batch#: 032022-D10-BD

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 Expires: 04/14/23

Sampling Method: SOP Client Method

Apr 14, 2022 | D8-Hi

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



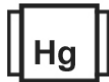
TESTED

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PRODUCT IMAGE SAFETY RESULTS



Pesticides  
PASSED



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  
**2.8181%**  
D8-THC/Disposable : 56.362 mg



D10-THC  
**77.1945%**  
D10-THC/Disposable : 1543.89 mg



Total Cannabinoids  
**82.835%**  
Total Cannabinoids/Disposable :  
1656.7 mg

Filtration PASSED

Analyzed By	Weight	Extraction date	Extracted By
1	0.5851g	04/06/22	1692
Analyte	LOD	Pass/Fail	Result
Filtration and Foreign Material	0.3	Pass	ND
Analysis Method -SOP.T.40.013	Batch Date : 04/05/22 18:31:54		
Analytical Batch -KN0022209FIL	Reviewed On - 04/07/22 08:25:30		
Instrument Used : E-AMS-138 Microscope			
Running On :			

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by products. A 5W/213 Stereo Microscope is used for inspection.

	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
%	5.016	0.8324	0.119	<0.01	0.1649	0.0108	0.1096	6.6878	ND	1.3477	ND	0.5016	2.8181	77.1945	ND	ND	ND	ND	ND
mg/ml	5.016	8.324	1.19	<0.1	1.649	0.108	1.096	6.878	ND	13.477	ND	5.016	28.181	771.945	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
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
113	0.2078g	04/06/22 10:04:58	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-SH-008 Running On :			
Reviewed On - 04/07/22 11:09:08 Batch Date : 04/05/22 17:08:19			

Dilution : 40  
Reagent : 081321.R04; 033122.R01; 031822.R11  
Consumables : 9817.231; 2222-046CC-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



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 : KN20405014-007  
Harvest/Lot ID: 1007

Batch# : 032022-D10-BD  
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	4.395	0.4395	HEXAHYDROTHYMOL	0.007	ND	ND
GUAIOL	0.007	ND	ND	EUCALYPTOL	0.007	ND	ND
LIMONENE	0.007	5.462	0.5462	ISOBORNEOL	0.007	<0.2	<0.02
LINALOOL	0.007	0.506	0.0506	FARNESENE	0.007	ND	ND
NEROL	0.007	ND	ND	FENCHONE	0.007	ND	ND
OCIMENE	0.007	0.752	0.0752	GAMMA-TERPINENE	0.007	0.441	0.0441
ALPHA-PHELLANDRENE	0.007	ND	ND	GERANIOL	0.007	ND	ND
PULEGONE	0.007	ND	ND				
SABINENE	0.007	<0.2	<0.02				
SABINENE HYDRATE	0.007	ND	ND				
TERPINEOL	0.007	ND	ND				
TERPINOLENE	0.007	ND	ND				
GERANYL ACETATE	0.007	ND	ND				
TRANS-NEROLIDOL	0.007	4.112	0.4112				
VALENCENE	0.007	<0.2	<0.02				
ISOPULEGOL	0.007	ND	ND				
ALPHA-HUMULENE	0.007	1.47	0.147				
ALPHA-PINENE	0.007	2.779	0.2779				
ALPHA-TERPINENE	0.007	ND	ND				
BETA-MYRCENE	0.007	7.923	0.7923				
BETA-PINENE	0.007	1.772	0.1772				
BORNEOL	0.013	<0.4	<0.04				
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	0.74	0.074				
ALPHA-CEDRENE	0.007	ND	ND				
CIS-NEROLIDOL	0.007	ND	ND				
3-CARENE	0.007	<0.2	<0.02				
FENCHYL ALCOHOL	0.007	0.234	0.0234				



## Terpenes

**TESTED**

Analyzed by: 1  
Weight: 1g  
Extraction date: NA  
Extracted By: NA  
Analysis Method - SOP.T.40.090  
Analytical Batch - KN002236TER  
Instrument Used : E-SHI-109 Terpenes  
Running On :  
Batch Date : 04/08/22 09:12:19  
Reviewed On - 04/14/22 10:16:27  
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

Total (%) 3.0586

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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

 Sample : KN20405014-007  
 Harvest/Lot ID: 1007

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

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

PASSED

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	0.131
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	PASS	ND						
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	ND						
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

PASSED

Analyzed by 1	Weight 0.5577g	Extraction date 04/05/22 06:04:11	Extracted By 143
Analysis Method - SOP.T.30.060, SOP.T.40.060,			
Analytical Batch : KN002211PES			
Instrument Used : E-SHI-125 Pesticides			
Running On : 04/05/22 18:54:50			
Reviewed On : 04/08/22 08:41:15			
Batch Date : 04/05/22 16:00:44			

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 : KN20405014-007  
 Harvest/Lot ID: 1007

 Batch# : 032022-D10-BD  
 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

PASSED

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	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



## Residual Solvents

PASSED

Analyzed by 1	Weight 0.02397g	Extraction date 04/08/22 05:04:22	Extracted By 138
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Analysis Method -SOP.T.40.032

Analytical Batch -KN002232SOL

Instrument Used : E-SHI-106 Residual Solvents

Running On :

Batch Date : 04/07/22 16:26:18

Reviewed On - 04/11/22 15:49:03

Dilution : 1

Reagent :

Consumables : R2017.099; G201.120

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 : KN20405014-007  
Harvest/Lot ID: 1007

Batch# : 032022-D10-BD  
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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	<b>Microbials</b>	<b>PASSED</b>		<b>Mycotoxins</b>	<b>PASSED</b>
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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 -KN002221MIC Batch Date : 04/05/22 18:32:33  
Instrument Used : Micro E-HEW-069  
Running On :

Analyzed by	Weight	Extraction date	Extracted By
1	1.0362g	04/06/22 05:04:50	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 -KN002212MYC | Reviewed On - 04/07/22 15:42:55

Instrument Used : E-SHI-125 Mycotoxins

Running On : 04/05/22 19:00:32 | Batch Date : 04/05/22 16:01:59

Analyzed by	Weight	Extraction date	Extracted By
143	0.5577g	04/06/22 09:04:38	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.

	<b>Heavy Metals</b>	<b>PASSED</b>
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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
1	0.2501g	04/09/22 04:04:51	12

Analysis Method -SOP.T.40.050, SOP.T.30.052

Analytical Batch -KN002215HEA | Reviewed On - 04/08/22 18:19:51

Instrument Used : Metals ICP/MS

Running On : | Batch Date : 04/05/22 16:11:16

Dilution : 1

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.